# INDEPENDENT ORBITER ASSESSMENT

# ASSESSMENT OF THE MECHANICAL ACTUATION SUBSYSTEM VOLUME 2 OF 2

7 MARCH 1988

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ASSESSMENT ASSESSMENT NASA FMEA #	DATE: ID:	MECH/SI	100 <b>A</b> )1-1			NASA BASE	LINE [ NEW [	x	]		
SUBSYSTEM: MDAC ID: ITEM:		MECH/SI 9100 INPUT/C		JT SHAF	т -	HOUSI	NG				
LEAD ANALYS	ST:	H.J. L	OWER!	Y							
ASSESSMENT:	:										
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SUBSYSTEM: MDAC ID: ITEM:	MECH/SDM 9101 INPUT/OUT	PUT SHAF	T - HOUS	SING	
LEAD ANALYST:	H.J. LOWE	RY			
ASSESSMENT:					
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LEAD ANALYST:	H.J. LOWERY			
ASSESSMENT:				
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SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 16513 LINKAGE AS	SEMBLY		
LEAD ANALYST:	W. SLAUGHT	ER		
ASSESSMENT:				
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SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 6208 GEARBOX			
LEAD ANALYST:	W.T. SLAUC	HTER		
ASSESSMENT:				
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* CIL R	ETE	NT:	IC	n :	RAT	CION	AL	E:	(If	ā a	pp:	lic	able				ľAU( ľAU(			x	]	
REMARKS	:										_											

IOA AGREES WITH THE NASA FMEA/CIL.

ASSESSM NASA FM	ENT	I	D:	1	2/19/ MECH/ D2-40	/PE	BR-	621: -1	lA					ASA DA Baseli N			x	]	
SUBSYST MDAC ID ITEM:				(	MECH/ 5211 DEPLO			т тс	DRQU	E	SHA:	FT							
LEAD AN	ALY	ST	:	V	7.T.	SI	ΑU	GHTE	ER										
ASSESSMI	ENT	:																	
		F	ICA LIG	ΗT			R	EDUN	IDAN	CY	SCI	REEN	S			CI [T	L EM	-	
	1	HDI	W/F	UNC	:		A			В			C						
NASA IOA	[	1	/1 /1	] R ]		[	P	]	[	P	]	]	P	]	[	• · ·	X	] ]	*
COMPARE	[	N	/N	)		[	N	]	נ	N	]	[	N	]	(	; 1	N	]	
RECOMMEN	[ADI	CIC	ONS:	:	(If	đ	ifi	fere	nt :	fro	om N	IASA)	l						
	[		/	]		[		]	[		J	]		-	] (ADD)	<b>/</b> I	DE:	] LE	TE)
* CIL RE	TEN	T1	ON	RA	TION	ALI	€:	(If	app	ol i	.cab			EQUATI		>	K :	]	
REMARKS: IOA AGRE	ES	WI	TH	TH	E FMI	EA/	′CI	L.							- L		•	,	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR- 02-4G-176	-6113 6-1		NASA DATA: BASELINE NEW								
	MECH/PBR 6113 LATCH HOO	ок месна	NISM									
LEAD ANALYST:	W.T. SLA	UGHTER										
ASSESSMENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITE HDW/FINC A B C												
HDW/FU												
NASA [ 2 /1R IOA [ 3 /3	] [	P ] [	P ]	[ P ] [ ]	[ X ] *							
COMPARE [ N /N	] [ ]	и ] [	[и]	[и]	[ N ]							
RECOMMENDATIONS:	(If di	fferent	from NAS	A)								
[ /	] [	) (	[ ]	[ ] (AI	[ ] DD/DELETE)							
* CIL RETENTION	RATIONALE	: (If ap	plicable	e) ADEQUATE INADEQUATE	[ x ]							
REMARKS: IOA DOES NOT AGR WORSE CASE FAILU LATCH PAIR. THI BE CRITICALITY T	RE WOULD S WILL NO	BE LOSS	OF ABILI	TY TO RELEAS	SE/LATCH A E AND SHOULD							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR- 02-4G-179	-6103 9-2		A DATA: SELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 6103 MOTOR BRA	AKE		
LEAD ANALYST:	W.T. SLAU	<b>JGHTER</b>		
ASSESSMENT:				
CRITICAL FLIGH	T	REDUNDANCY	SCREENS	CIL ITEM
HDW/FU	NC A	В	C	
NASA [ 3 /1R IOA [ 3 /3		?] [F	] [ P ] ] [ ]	[ X ] * [ ]
COMPARE [ /N	] [ N	и] [и	] [ N ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent fr	om NASA)	
[ /	] [	] [	] [ ]	[ ] (ADD/DELETE)
* CIL RETENTION REMARKS:		(If appl		UATE [ X ] UATE [ ]

ASSESSMEI ASSESSMEI NASA FME	T	ID	<b>):</b>	2/19 MECH 02-4	I/PI	3R	-6 0-	107 1						SA DAT ASELIN NE	E	[ ]		]	
SUBSYSTEM MDAC ID:	M:			MECH 6107 GEAL	7														
LEAD ANA	LYS	T:	:	W.T	. S	LA	UG	HTER	2										
ASSESSME	NT:	;																	
	CR1		CAL				RF	DUNE	AN	CY	SCR	EENS	3			CI		Í	
	1		LIGH N/FU				A			В			С						
NASA IOA	[	2	/1R /1R	]		[ [	P P	]	[ [	P P	]	[ [	P P	]		[	X	]	*
COMPARE	[	N	/	1		[		]	[		]	[		]		[	N	]	
RECOMMEN	IDA'	TI:	ons:	(	Ιf	<b>d</b> :	if:	ferei	nt	fr	om N	ASA	)						
	[		/	]		[		]	(		]	[		]	(A	[ DD/	DI	ELJ	ETE)
* CIL RI	ETE	NT	ION	RATI	ONA	L	E:	(If	aŗ	pl	icab			DEQUAT DEQUAT		_		]	
REMARKS:	: EES	W	ITH	THE	FME	EΑ	/c	IL.											

ASSESSM ASSESSM NASA FM	D:	19/8 CH/1 -4G-	PB:	R-	6108 -2	В					ASA DA BASELI		E		]				
SUBSYST MDAC ID ITEM:				610	CH/I 08 ARBO		R												
LEAD AN	ALY	ST	:	W.J	r. s	L	AU	GHTI	ER										
ASSESSMI	ENT	:																	
	CR		ICAI LIGH	ITY T			R	EDUN	IDAN	CY	SCI	REEN	S				IL		
	]	HD	W/FU	NC			A			В			С			Τ.1	ren	1	
NASA IOA	[	2 3	/1R /1R	]		[	P P	]	[	P P	]	]	P P	]		[ [	x	]	*
COMPARE	[	N	/	]		[		3	[		]	[		]	ı	[	N	3	
RECOMMEN	IDA'	ric	ons:	(	Ιf	di	.f1	ere	nt i	fro	om N	ASA)	•						
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* CIL RE	TEN	TI	ON :	RATI	ONA:	LE	:	(If	app	li	.cab			EQUATI			x	]	
REMARKS: IOA AGRE	ES	WI	TH :	THE :	FME	A/	CI	L.							- L			ı	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR- 02-4G-181		NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 6111 LATCH TOR	QUE SHAF	TT ASSEME	BLY							
LEAD ANALYST:	W.T. SLAU	GHTER									
ASSESSMENT:											
CRITICAL FLIGH	CIL ITEM										
HDW/FU	_	B C									
NASA [ 2 /1R IOA [ 3 /1R	] [ F	P ] [	NA] P ]	[ P ] [ P ]	[ X ] *						
COMPARE [ N /				[ ]	[ N ]						
RECOMMENDATIONS:	(If di	fferent	from NAS	A)							
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* CIL RETENTION	RATIONALE	: (If ap	plicable	) ADEQUATE INADEQUATE							
REMARKS: IOA AGREES WITH	THE FMEA/	CIL.									

ASSESSMI ASSESSMI NASA FMI	ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-6112 NASA FMEA #: 02-4G-181-2 SUBSYSTEM: MECH/PBR												ASA DAT BASELIN NE		] ( ]	
SUBSYSTI MDAC ID: ITEM:	em:			MECH/ 6112 LATCH			ARY 1	ACT	UA	TOR						
LEAD ANA	ALY	ST	:	W.T.	SL	AU	GHTEI	<b>R</b>								
ASSESSME	ENT	:														
		F	LIGH	_			EDUNI	OAN			EENS			CII	_	
		שנו	M/FU	NC		A			В			C				
NASA IOA	[	2	/1R /3	]	[	P	]	[	N	<b>A</b> ]	<b>[</b>	P	]	[	]	*
COMPARE	[	N	/N	]	ſ	N	]	[	N	]	[	N	]	[	]	
RECOMMEN	DA:	ric	ONS:	(If	đ:	Ĺf1	feren	t 1	îro	om NA	SA)					
	[	3	/3	]	[		]	[		]	[			[ D :DD/D		TE)
* CIL RE	TEN	T]	ON F	RATION	ALE	: :	(If	apr	ı i	cabl	۱۵					
REMARKS:												AD	EQUATE EQUATE	[	]	
IOA DOES SHOULD BI A SINGLE	E A	, C	RITI	CALITY	7 Т	'HR	EF (	31	AS EC	THE T MI	LO SSI	SS ON	OF ABI	LITY	то	LATCH
													OCH TIM		ہ ن	

REPORT DATE 03/07/88 C-526

NASA DATA:

ASSESSME ASSESSME NASA FME SUBSYSTE MDAC ID: ITEM:	):	MECH/ 02-46 MECH/ 6112 LATCH	CTU		TOR			SA DATA BASELINE NEW	[		]							
LEAD ANA	LY	ST:	:	W.T.	SLA	¥U(	HTER	•										
ASSESSME	NT	:																
	CRITICALITY FLIGHT								Y	SCF	REENS	5			IL TEM	£		
	1	_	JIGH. N/FUI			A			В			С		_	LL	1		
NASA IOA				]	[	P	]	]	F	]	[	P	]	[	x	]	*	
COMPARE	[	N	/N	]	[	N	]	[	N	]	[	N	1	[	N	]		
REC			<b>NS:</b>	(I:	£ d	ifi	fere	nt i	fr	om N	IASA	)						
			/3	]	[		]	[		]	[		] (A		D /DI		ETE)	
* C			ON :	RATIO	NAL	E:	(If	app	<b>)</b> 1:	icak						]		
REM IOA SHO A S	ADEQUATE [ ] INADEQUATE [ ]  AGREE WITH FMEA/CIL. RITICALITY THREE (3) AS THE LOSS OF ABILITY TO LATCH H PAIR SHOULD NOT AFFECT MISSION CONTINUANCE.																	

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	E: 2/19/88 MECH/PE 02-4G-1	R-6105			TA: NE [ ] EW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/PE 6105 TORQUE	R LIMITER											
LEAD ANALYST:	W.T. SI	AUGHTER											
ASSESSMENT:													
CRITIC FLI HDW/	CIL ITEM												
•		A	В	С									
NASA [ 2 / IOA [ 3 /	1R ] [ 3 ] [	F ]	[ F ] [ ]	[ P ] [ ]	[ X ] * [ ]								
COMPARE [ N /	и ] [	N ]	[ N ]	[ N ]	[ N ]								
RECOMMENDATION	S: (If d	ifferent	from	NASA)									
[ 3 /	3 ] [	]	[ ]	- <del>-</del>	[ D ] (ADD/DELETE)								
* CIL RETENTIO	CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ] INADEQUATE [ X ]												
IOA DOES NOT A		FMEA/CII	J•										

FAILURE TO ENGAGE OF OUR TORQUE LIMITER RESULTS IN LOSS OF ROTARY INPUT OF ONE DRIVE MOTOR. OTHER DRIVE MOTOR SHOULD EFFECT RELEASE/LATCH STATE IN SINGLE MOTOR DRIVE TIME. SHOULD BE A CRITICALITY THREE (3) AS MISSION CONTINUANCE NOT AFFECTED.

ASSF	'E: 2/19			NASA DA BASELI	
ASSI NAS <i>i</i>		H/PBR-6104 4G-183-2			NE [ ] EW [ X ]
SUB: MDA: ITEI	610	H/PBR 4 QUE LIMITER	ł.		
LEA!	W.T	. SLAUGHTER	ł		
ASS:					
	CALITY ,IGHT		ANCY SCR B	EENS C	CIL ITEM
	//FUNC	A			
	/1R ] /3 ]	[ <b>F</b> ]	[ F ] [ ]	[ P ] [ ]	[ X ] * [ ]
COM	/N ]	[и]	[и]	[ N ]	[и]
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	/ ]	[ ]	[ ]	[ ]	[ ] (ADD/DELETE)
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REI IOA AGREE	S WITH THE	FMEA/CIL.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/26/88 MECH/PBR-1 02-4G-184-			ASA DATA BASELINE NEW	-	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR 16514 ROLLER ASS	SEMBLY LAT	TCH RADIA	TOR		
LEAD ANALYST:	W. SLAUGHT	TER				
ASSESSMENT:						
CRITICALI FLIGHT		EDUNDANCY	SCREENS		CIL ITEM	ī
HDW/FUN	IC A	В	C			
NASA [ 3 /1R IOA [ 3 /1R	] [ P ] [ P	] [ F ] [ F	] [ P	]	[ X	] *
COMPARE [ /	] [	] [	] [	]	[	]
RECOMMENDATIONS:	(If diff	erent fro	om NASA)			
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* CIL RETENTION R REMARKS: IOA AGREES WITH F		(If appli	ΑI	DEQUATE DEQUATE	[ X	]

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-63022 NASA FMEA #: 02-4G-186-1 SUBSYSTEM: MECH/PBR													J		SA 1 ASE		E		x	]	
SUBSYSTEM MDAC ID: ITEM:	I:			63				'INGS	5/P	ΟI	NTS	5									
LEAD ANAI	LYS	T:	;	W.	T. S	LA	UG	HTEF	3												
ASSESSMEN	T:	:																			
CRITICALITY REDUNI FLIGHT HDW/FUNC A										CY B		CREEI		С				CI	L	ſ	
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COMPARE	[	N	/N	]		[	N	]	1	N	[ ]		[	N	1			[	N	]	
RECOMMEN	DA'	TI	ons:		(If	đ	if:	fere	nt	fı	com	NAS	A)	ı							
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REMARKS:	ES	W	ITH	TH	E FM	ΕA	/c	IL.													

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SUBSYSTI MDAC ID: ITEM:				10	ECH/ 5512 VITC			DUL	E, ]	LIM	IT,	RAD	IA	TOR ST	OWE.	D			
LEAD AND	ALY.	ST	:	W.	SL	AU	GH	TER											
ASSESSMI	ENT	:																	
		Fl	ICAL LIGH	T	?		R	EDUI	NDAN	ſСY	SC	REEN	S			CI IT	L	ſ	
	1	HDV	V/FU	NC			A			В			С		•			•	
NASA IOA	[	2	/1R /1R	]		[	P P	]	[	P P	]	]	P P	]		[	X X	]	*
COMPARE	[		/	]		(		]	[		]	[		]	(	[		]	
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IOA AGRE	ES	WI	тн т	HE	FME	:A/	'CI	L.										-	

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-6501 NASA FMEA #: 05-65G-2001-0															LINE NEW	[			
SUBSYSTE MDAC ID: ITEM:				650	)1			PD&C		TC	H (S	4/5	6)						
LEAD ANA	LYS	ST	:	W.:	r. s	LA	ŪG	HTER	1										
ASSESSME	NT	:																	
CRITICALITY RED FLIGHT									ANC	CY	SCRE	ENS	5				[L CEN	ſ	
	1		W/FU				A			В			С						
NASA IOA	[	2	/1R /3	]		]	P	]	[	P	]	[ [	P	]		[	X	]	*
COMPARE	[	N	/N	]		[	N	1	[	N	]	[	N	]		[	N	]	
RECOMME	NDA	TI	ons:		(If	đ:	if	fere	nt :	fro	om NA	ASA	)						
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REMARKS IOA AGR 6503, 6	EES	. W	ITH	THE	FMI	EA,	/C	IL.	AL	so	SEE	RE	LA'	TED	MDAC	: I	ים'	s '	6502,

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SUBSYSTI MDAC ID: ITEM:				MECH/ 6502 LATCH	•			CH (	(S4/S6)	
LEAD ANA	\LY	ST	:	W.T.	SLA	JGHT)	ER			
ASSESSME	CNT	:								
		F	LIGH	_	F	REDUI	NDANCY	SCF	REENS	CIL ITEM
		HD	W/FU	NC	P	1	В		С	
NASA IOA	[	2	/1R /3	]	[ E	<b>'</b> ]	[ P	]	[ P ] [ ]	[ X ] *
COMPARE	[	N	/N	]	[ N	]	[ N	]	[ N ]	[ N ]
RECOMMEN	DA'	ri	ons:	(If	dif	fere	ent fro	om N	IASA)	
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* CIL RE	TEI	NT]	CON 1	RATION	ALE:	(If	appli	cab	ADEQUATE	
REMARKS: IOA AGRE 6503, 65	ES 04	W]	TH 1	THE FM	EA/C	IL.	ALSO	SEE	INADEQUATE RELATED MDA	• •

ASSESSME	SSESSMENT DATE: 2/19/88 SSESSMENT ID: MECH/PBR-6503 ASA FMEA #: 05-65G-2001-01 BASELINE [ ] NEW [ X ] UBSYSTEM: MECH/PBR/EPD&C															
SUBSYSTEM MDAC ID:				MECH/P 6503 LATCH				[C]	н (S	4/S	6)					
LEAD ANA	LYS	T:		W.T. S	LAU	GHTER										
ASSESSME	NT:	}														
	CRI		[CAL]		R	EDUND	ANC	Y	SCRE	ENS				LL LEN		
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NASA IOA	]	2	/1R /1R	]	[ F	) )	[ ]	P P	]	[ [	P P	]	[ [	X	]	*
COMPARE			/			]	[			[			[	N	]	
RECOMMEN	IDA'	TI	ons:	(If	dii	ferer	nt f	rc	om NA	SA)						
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* CIL RI	ETE	NT	ION	RATION	ALE	: (If	app	11	icabl	le) Il	A A	DEQUATE DEQUATE	[	x	]	
REMARKS IOA AGRI 6502, 6	EES	W	ITH	THE FM	EA/	CIL.	ALS	0	SEE	RE	LA	TED MDA	C I	ים	s	6501,

ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/PBR-6504 NASA FMEA #: 05-65G-2001-01 SUBSYSTEM: MECH/PBR/EPD&C													A DATA SELINI NEV		
SUBSYST MDAC ID ITEM:				650	)4			&C L SW	ΙT	СН	(S4/	S6)			
LEAD AN	ALY	ST	:	W.I	. si	ΑU	GHT	ER							
ASSESSMI	ENT	:													
		F	LIGH					NDAN(	CY	SCI	REENS	3		CIL ITEM	
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NASA IOA		2 3	/1R /3	]	] ]	P	]	]	P	]	[	P ]		[ X ]	*
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* CIL RE	TEN	TI	ON	RATIO	ONALI	: ⊇	(If	app	1 i	.cab	le)				
REMARKS:											IN	ADEQ	UATE UATE	į	
IOA AGRE 6502, 65	ES 03.	WI	TH !	THE I	FMEA/	'CI	L.	ALS	0	SEE	REL	ATED	MDAC	ID's 6	501,

NASA DATA:

ASSESSMEN ASSESSMEN NASA FME	H/VDM	-81 :026	.07D A-2			1		DATA: ELINE NEW	[							
SUBSYSTEM MDAC ID:			010	H/VDM 7 Roswi		POSI	TI	ои і	NDIC	ATOR	, ACT	UAT	OR			
LEAD ANA	LYSI	r:	H.J	. LOV	VERY	Ţ.										
ASSESSME	NT:															
•					REI	OUNDAN	ICY	SCF	REENS	•			L EM			
		FLIGH DW/FU			A		E	3		С						
NASA IOA	[ :	2 /1R 2 /1R	]	[	P P	]   ]	[ F	P ] [A]	[	P ] P ]		[	X X	]	*	
COMPARE	[	/	]	[		]	[ ]	]	[	1		[		]		
RECOMMEN	DAT	ions:	: (	(If d	iff	erent	fı	com 1	NASA)	)						
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* CIL RE	ETEN	TION	RAT:	IONAL	E:	(If a	pp:	lica		ADEC	UATE QUATE	[	x	]		
IOA AGRI	INADEQUATE [ ]  REMARKS:  IOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED  AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.															

ASSESSMI ASSESSMI NASA FMI	ENT EA 7	   	D:	2/1 MEC 05-	9/88 H/VDI 6AB-:	M-810 2026 <i>1</i>	08D A-2		N	ASA DA BASELI		x	]	
SUBSYSTI MDAC ID: ITEM:	:			MEC 810 MIC	8		POSIT	ION	INDICA	TOR, A	CTUA	. <b>TO</b> 1	R	
LEAD ANA	LYS	ST	:	H.J	. LO	VERY								
ASSESSME	ENT:	:												
	CRI		CAL LIGH	ITY T		REDU	NDANC	( SC	REENS			IL TEM	e	
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RECOMMEN	DAT	ΙO	NS:	(I	f di	ffer	ent fr	om N	NASA)					
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REMARKS:									IA INAI	EQUATI EQUATI	E [	X	]	
IOA AGRET THE DISCI AS AN ISS	REP	AN	CY B	ETWE	EN N	ASA 1	MEA/C	IL A SUB	ND IOA SYSTEM	ANAL	(SES SER.	<b>A</b> R:	E 1	MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	502D 6A-2	NASA DATA: BASELINE NEW	_								
	MECH/VDM/E 8502 ACTUATOR S	PD&C										
LEAD ANALYST:	M. BRADWAY	?										
ASSESSMENT:												
CRITICAL FLIGH		EDUNDANCY SCRI	EENS	CIL ITEM								
HDW/FU	_	В	С									
NASA [ 2 /1R IOA [ 2 /1R	[ P	] [ P ] ] [ NA]	[ P ] [ P ]	[ X ] *								
COMPARE [ /	] [	] [N]	[ ]	[ ]								
RECOMMENDATIONS:	(If dif	ferent from N	ASA)									
ι /	] [	] [ ]	[ ]	[ ] ADD/DELETE)								
* CIL RETENTION	RATIONALE:	(If applicab	ole) ADEQUATE INADEQUATE									
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSM ASSESSM NASA FM		MECH	VD	M-	810 27-	7A 2					DATA ELINE NEW		, ] k ]				
SUBSYST MDAC ID ITEM:	EM :	:			8107			сн :	POSI	TI	ON I	INDIC	ATOR	, ACT	UATO	OR.	
LEAD AN	AL:	YSI	<b>!:</b>		н.J.	LO	VE	RY									
ASSESSM	ENT	r:															
CRITICALITY REDUNDANCY SCREENS FLIGHT HDW/FUNC A B C													CII				
		HD	W/I	UN	C		A			В		(	2		TIL	11	
NASA IOA	[	2	/1 /1	LR LR	]	]	P P	]	[	P NA	] <b>A</b> ]	[ ]	? ]		[ X	]	*
COMPARE	[		/		]	[		]	[	N	]	(	]			]	
RECOMMEN	IDA	TI	ONS	:	(If	di	ff	ere	nt i	fro	m N	ASA)					
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* CIL RE	TE	NT]	ON	R	ATION	ALE	:	(If	app	li	cab.	le)					
REMARKS: IOA AGRE	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  REMARKS:  INADEQUATE [ ]  IOA AGREES WITH THE FMEA/CIL.																
THE DISC AS AN IS	RE)	PAN	ICY	BE	aawn:	N N	A C	וים א	MEA/ H TH	CI E	L AI	ND IO	A ANZ M MAI	ALYSE NAGER	S AI	RE N	IARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8108A		NASA DATA: BASELINE NEW									
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM 8108 MICROSWITCH POS	ITION IND	ICATOR, ACTU	JATOR								
LEAD ANALYST:	H.J. LOWERY											
ASSESSMENT:												
CRITICAL: FLIGH	ITY REDUNDA	NCY SCREE	NS	CIL ITEM								
	NC A	В	С									
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] *								
COMPARE [ /	] [ ]	[ N ]	[ ]	[ ]								
RECOMMENDATIONS:	(If different	from NAS	A)									
[ /	] [ ]	[ ]	[ ] (AI	[ ] DD/DELETE)								
* CIL RETENTION	RATIONALE: (If a		) ADEQUATE INADEQUATE	[ X ] [ ]								
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM- 05-6AB-20	8502 <b>A</b> 27 <b>-</b> 2		NASA DATA BASELINE NEW									
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/ 8502 ACTUATOR		ODULE										
LEAD ANALYST:	M. BRADWA	Y											
ASSESSMENT:													
CRITICAL FLIGH		EDUNDANG	CY SCREEN	S	CIL								
HDW/FU			В	С	ITEM								
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ] [ NA] [	P ] P ]	[ X ] * [ X ]								
COMPARE [ /	] [	] [	N ] [	]	[ ]								
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)									
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REMARKS:	* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA/	CIL AND	IOA ANALYSE	S ARE MARKED								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	NASA DATA: BASELINE NEW											
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM 8107 MICROSWITCH	POSITION INDI	CATOR, ACTU	JATOR								
LEAD ANALYST:	H.J. LOWERY											
ASSESSMENT:												
CRITICAI FLIGH		UNDANCY SCREEN	S	CIL ITEM								
HDW/FU		В	С									
NASA [ 2 /1F IOA [ 2 /1F	R ] [ P ]	[ P ] [ [ NA] [	P ] P ]	[ X ] *								
COMPARE [ /	] [ ]	[ N ]	]	[ ]								
RECOMMENDATIONS	: (If diffe	rent from NASA	A)									
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* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ X ]  INADEQUATE [ ]												
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSME ASSESSME NASA FME	NT   NT   A # :	DATE: ID: :	2/19/ MECH/ 05-6/	/88 /VDN \B-2	1-81 2028	880			NASA BASI	DATA ELINE NEW	[	) x ]	
SUBSYSTEM MDAC ID:			MECH/ 8108 MICRO			POSI	TION	INDIC	CATOR	ACT	UAT	OR	
LEAD ANAI	LYSI	r:	H.J.	LOW	ERY								
ASSESSMEN	T:												
C		'ICAL	ITY r		REDU	INDAN	CY S	CREENS	}		CII		
		W/FUI		•	A			С		ITE	EM		
NASA IOA	[ 2 [ 2	/1R /1R	]	]	P ]	[	P ] NA]	[ [	P ] P ]		K ]	[ ]	*
COMPARE	]	/	]	[	]	[	и ј	[	]		[		
RECOMMEND	ATI	ons:	(If	di	ffer	ent i	from	NASA)					
			]						]	(AD	[ D/D	] ELE	ETE)
* CIL RET	ENT:	ION R	ATIONA	LE:	(I	f app	lica	ble)					
REMARKS:	s Wi	гтн т	HE FME	A/C	CIL.			INZ	ADEQUA ADEQUA	ATE	•	•	
THE DISCRI	EPAI	NCY B	ETWEEN	NA	CA 1	FMEA/ TH TH	CIL E SU	AND IC	ANA ANA	ALYSE: IAGER	S Al	RE	MARKED

ASSESSMEN ASSESSMEN NASA FME	5021 8	В					ASELIN NE										
SUBSYSTEM MDAC ID:			850	H/VD 2 UATO				ODI	JLE								
LEAD ANA	LYST	:	M.	BRAD	WAY	7											
ASSESSME	NT:																
1		ICAL LIGH			RI	EDUN	DANC	Y:	SCRE	ENS	,			IL TEN	1		
	_	W/FU			A			В			С						
NASA IOA	[ 2	/1R /1R	]	[	P P	]	[ [	P NA	]	[	P P	]	[ ]	X X	]	*	
COMPARE	[	/	]	(		]	[	N	]	[		]	[		]		
RECOMMEN	DATI	ons:		(If d	lif	fere	nt i	fro	m NA	ASA)	l						
	[	/	]	1	•	3	[		]	[		]		)/D		ETE)	
* CIL RE	TENT	MOI	RAT	IONA]	Œ:	(If	apı	pli	.cab]			EQUAT		X	]		
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																	

ASSESSMI ASSESSMI NASA FMI	ent Ent Ea #	DATE ID:	2/1 MEC 05-	.9/88 CH/VDM 6AB-2	I-8107 2029-2	7 <b>c</b> 2		ASA DAT BASELIN NE		]		
SUBSYSTE MDAC ID: ITEM:	EM:		810			POSITION	INDICA	TOR, AC	TUATO	R		
LEAD ANA	LYS	T:	H.J	. LOW	ERY							
ASSESSME	NT:											
	CRI	TICAI FLIGH	ITY T		REDUN	DANCY S	CREENS		CIL ITE			
	H	DW/FU	NC		A	В	С		1151	.1		
NASA IOA	[ [	2 /1R 2 /1R	: ] : ]	]	P ] P ]	[ P ] [ NA]	[ P	]	[ X ]	] *		
COMPARE	[	/	]	[	]	[и]	ξ	]	[	]		
RECOMMEN	DAT:	IONS:	(:	If di	ffere	nt from	NASA)					
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* CIL RE	ren:	TION	RATIO	NALE:	(If	applica						
REMARKS:							AD INAD	EQUATE EQUATE	[ X	] ]		
REMARKS:  IOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	ECH/VDM-8108C BASELINE						
MDAC TD.	MECH/VDM 8108 MICROSWITC	CH POSIT	ION INDI	CATOR, ACTU	JATOR			
LEAD ANALYST:	H.J. LOWER	RY						
ASSESSMENT:								
CRITICAL FLIGH	ITY RI	EDUNDANC	Y SCREEN	īS	CIL ITEM			
HDW/FU			В	С				
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ]   NA]	[ P ] [ P ]	[ X ] * [ X ]			
COMPARE [ /	] [	] [	<b>n</b> ]	[ ]	[ ]			
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	A)				
[ /	] [	] [	1	[ ] (A)	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE:	(If app	olicable	) ADEQUATE INADEQUATE	[ X ]			
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NA	SA FMEA	CIL AND IE SUBSY	IOA ANALYS STEM MANAGE	ES ARE MARI R.	KED		

ASSESSMI ASSESSMI NASA FMI	ENT	I	D:	M	CH/VDM-8502C PAGET TYP													
SUBSYSTI MDAC ID: ITEM:	EM:			8!	ECH/ 502 CTUA					MOI	OULI	3						
LEAD ANA	LYS	ST	:	M.	BR.	BRADWAY												
ASSESSMENT:																		
FLIGHT								CIL ITEM										
	F	IDI	W/FU	NC			A			В			С		_		•	
NASA IOA	]	2	/1R /1R	]		[	P P	]	[ [	P NA	]	]	P ] P ]		[	X X	]	*
COMPARE	[		/	]		[		]		N	]	[	]		[		]	
RECOMMEN	DAT	'IC	ons:		(If	di	iff	ere	nt i	fro	m N	ASA)						
	[		/	]		[		]	[		)	[	]	(AI	[ /QC	'DE	] ELE	ETE)
* CIL RE	TEN	TI	ON F	TAS	IONA	LE	:	(If	app	li	cab	le)						
REMARKS:													DEQUA			X	]	
IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																		

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8	107E 0A-2		NASA DATA: BASELINE [ ] NEW [ X ]				
SUBSYSTEM: MDAC ID: ITEM:	8107	H POSIT	ION IND	ICATOR, ACTU	JATOR			
LEAD ANALYST:	H.J. LOWER	RY						
ASSESSMENT:								
CRITICAL		DUNDANC	Y SCREE	NS	CIL ITEM			
FLIGH HDW/FU	NC A		В	С	11211			
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ] NA]	[ P ] [ P ]	[ X ] *			
COMPARE [ /	] [	] [	и ј	[ ]	[ ]			
RECOMMENDATIONS:	(If dif	ferent f	from NAS	A)				
[ /	] [	] [	1	[ ] (A)	[ ] DD/DELETE)			
* CIL RETENTION	RATIONALE:	(If app		) ADEQUATE INADEQUATE				
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA	CIL AND	IOA ANALYS	ES ARE MARKED			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-203	3108E 30A-2	NASA DATA: BASELINE [ ] NEW [ X ]				
MDAC ID:	MECH/VDM 8108 MICROSWITC	H POSITION INDI	CATOR, ACTU	ATOR			
LEAD ANALYST:	H.J. LOWER	<b>Y</b>					
ASSESSMENT:							
CRITICALI FLIGHT	TTY RE	DUNDANCY SCREEN		CIL ITEM			
HDW/FUN		В	С	TIEM			
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [P] [ ] [NA] [	P ] P ]	[ X ] * [ X ]			
COMPARE [ /	] [	] [и] [	1	[ ]			
RECOMMENDATIONS:	(If diffe	erent from NASA	)				
[ /	] [	] [ ] [		[ ] D/DELETE)			
* CIL RETENTION R	RATIONALE:	•	ADEQUATE NADEQUATE	[ x ]			
REMARKS: IOA AGREES WITH T THE DISCREPANCY B	HE FMEA/CI	L.	-	. ,			
THE DISCREPANCY B AS AN ISSUE UNTIL	RESOLVED V	WITH THE SUBSYS	TOA ANALYSE: TEM MANAGER	S ARE MARKED			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8502E	ECH/VDM-8502E BASELINE							
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/EPD&C 8502 ACTUATOR SWITCH N	502 CTUATOR SWITCH MODULE							
LEAD ANALYST:	M. BRADWAY	. BRADWAY							
ASSESSMENT:									
CRITICAL		CY SCREENS	CIL ITEM						
FLIGH HDW/FU		ВС							
NASA [ 2 /1R IOA [ 2 /1R	[ P ] [ ] [ P ] [	P ] [ P ] NA] [ P ]	[ X ] * [ X ]						
COMPARE [ /	] [ ] [	и] []	[ ]						
RECOMMENDATIONS:	(If different	from NASA)							
1 /	] [ ] [	] [ ] (AI	[ ] DD/DELETE)						
* CIL RETENTION	RATIONALE: (If ap	oplicable) ADEQUATE INADEQUATE	[ x ]						
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNT	RETWEEN NASA FMEA	A/CIL AND IOA ANALYS THE SUBSYSTEM MANAGE	ES ARE MARKED						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-81 05-6AB-2031	07 <b>A</b>	NASA DATA: BASELINE [ ] NEW [ X ]						
MDAC ID:	MECH/VDM 8107 MICROSWITCH	POSITION IN	DICATOR, ACT	TUATOR					
LEAD ANALYST:	H.J. LOWERY								
ASSESSMENT:									
t migu		UNDANCY SCRE	ENS	CIL ITEM					
HDW/FU	NC A	В	С						
NASA [ 2 /1R IOA [ 2 /1R	] [ P ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] * [ X ]					
COMPARE [ /	] [ ]	[ N ]	[ ]	[ ]					
RECOMMENDATIONS:	(If differ	cent from NA	SA)						
[ /	] [ ]	[ ]		[ DD/DELETE)					
* CIL RETENTION F	RATIONALE: ()	f applicable							
			ADEQUATE INADEQUATE	[ X ]					
REMARKS: IOA AGREES WITH THE DISCREPANCY E	ETWEEN NASA	FMEA/CTT, AND	n toa anatve	ec ane wanten					
AS AN ISSUE UNTIL	RESOLVED WI	TH THE SUBSY	VSTEM MANAGE						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-203	108 1A	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	8108	H POSITION 1	INDICATOR, ACTU	JATOR				
LEAD ANALYST:	H.J. LOWER	.J. LOWERY						
ASSESSMENT:								
		DUNDANCY SCI	REENS	CIL ITEM				
FLIGH HDW/FU	NC A	В	С	IILM				
NASA [ 2 /1R IOA [ 2 /1R	] [ P [ P	] [P] ] [NA]	[ P ] [ P ]	[ X ] *				
COMPARE [ /	] [	] [N]	[ ]	[ ]				
RECOMMENDATIONS:	(If diff	erent from l	NASA)					
[ /	] [	] [ ]	[ ] (AI	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE:	(If applical	ole) ADEQUATE INADEQUATE	[ X ] [ ]				
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM- 05-6AB-20	NASA DATA: -8502 BASELINE [ ] 031A NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:		EPD&C						
LEAD ANALYST:	M. BRADWA	Y						
ASSESSMENT:								
FLIGHT		EDUNDANC	CY SCREE	ns	CIL ITEM			
HDW/FU	IC A		В	С				
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [	P ] NA]	[ P ] [ P ]	[ X ] * [ X ]			
COMPARE [ /	] [	] [	<b>N</b> ]	[ ]	[ ]			
RECOMMENDATIONS:	(If dif	ferent f	rom NAS	A)				
[ /	] [	] [	1	[ ] [A]	[ ] DD/DELETE)			
* CIL RETENTION F REMARKS:				) ADEQUATE INADEQUATE	[ x ] [ ]			
IOA AGREES WITH THE DISCREPANCY EAS AN ISSUE UNTIL	ETWEEN NAS	SA FMEA/	CIL AND	IOA ANALYSI	ES ARE MARKED			

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/VI	DM-8503		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/VI 8503 MCA AC	DM/EPD&C			
LEAD ANALYST:	M. BRA	DWAY			
ASSESSMENT:					
CRITICA FLIC		REDUNI	DANCY SCRE	ENS	CIL ITEM
	UNC	A	В	С	
NASA [ 2 /1 IOA [ 2 /1	R ] R ]	[ P ] [ P ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	3	[ ]	[ N ]	[ ]	[ ]
RECOMMENDATION	: (If	differe	nt from NA	ASA)	
[ /	]	[ ]	[ ]	[ ]	[ ] ADD/DELETE)
* CIL RETENTIO	N RATIONA	LE: (If	applicabl	le) ADEQUATE INADEQUATE	[ X ]
REMARKS: IOA AGREES WIT THE DISCREPANC	BETWEEN	I NASA F	MEA/CIL AI H THE SUBS	ND IOA ANALYS	SES ARE MARKED

	ASSESSMENT DATE: 2/19/88 ASSESSMENT ID: MECH/VDM-8503B NASA FMEA #: 05-6AB-2128-1 SUBSYSTEM: MECH/VDM/EPD&C							NASA DATA: BASELINE [ ] NEW [ X ]							
	SUBSYSTI MDAC ID: ITEM:	EM:		MECH/ 8503 MCA A				AY							
	LEAD ANA	ALYS	T:	M. BR	ADW/	AY									
	ASSESSME	ENT:													
			FLIGH'	_	I	REDUNI	AN	CY S	SCREI	ens			IL TEI		
		H	DW/FU	NC	7	A		В		С		_			
	NASA IOA	[ :	2 /1R 2 /1R	]	[ H	? ] ? ]	[	P NA	] ]	[ P	]	[	X X	]	*
	COMPARE	[	/	]	[	]	[	N ]	)	[	]	[		]	
	RECOMMEN	DAT	ions:	(If	dif	feren	it :	fron	n NAS	A)					
		[	/	]	[	]	[	]		(			/DE		ETE)
	* CIL RE	TENT	rion i	RATIONA	LE:	(If	app	olic	able						
	REMARKS:									Al INAI	DEQUATE DEQUATE	]	X	]	
1	IOA AGRE THE DISC AS AN IS	REPA	ANCY E	BETWEEN	NA	SA FM	EA/ TF	'CIL	AND	IO!	ANALYS	ES	AR	E	MARKED
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-212	503C 9 <b>-</b> 2		NASA DATA: BASELINE NEW	[ x ]				
SUBSYSTEM: MDAC ID: ITEM:	8503	A AC POWER RELAY							
LEAD ANALYST:									
ASSESSMENT:									
CRITICAL		CY SCREEN	CIL ITEM						
FLIGH HDW/FU			В	С					
NASA [ 2 /1R IOA [ 2 /1R	] [ P ]	] [	P ] NA]	[ P ] [ P ]	[ X ] *				
COMPARE [ /	] [	] [	n ]	[ ]	[ ]				
RECOMMENDATIONS:	(If dif	ferent	from NAS	A)					
[ /	] [	] [	]	[ ] (A	[ ] DD/DELETE)				
* CIL RETENTION	RATIONALE:	(If ap		) ADEQUATE INADEQUATE					

REMARKS:

IOA AGREES WITH THE FMEA/CIL.

THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.

ASSESSM ASSESSM NASA FM	ENT	ID:	MECI	I/VDM	-850 130-	3D 1	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYST MDAC ID ITEM:	EM:		MECE 8503 MCA	I/VDM, B AC PO								
LEAD AN	ALYS	r:	м. в	. BRADWAY								
ASSESSMI	ENT:											
	I	FLIGH		_	REDUI	NDANCY SCR	EENS	CIL ITEM				
	HI	OW/FU	NC	A		В	C	TIEM				
NASA IOA	[ 2 [ 2	/1R	]	[ P	) ]	[ P ] [ NA]	[ P ] [ P ]	[ X ] * [ X ]				
COMPARE	[	/	3	ι	]	[ N ]	[ ]	[ ]				
RECOMMEN	DATI	ons:	(I	f dif	fere	ent from N	ASA)					
	[	/	]	[	]	[ ]	[ ]	[ ] (ADD/DELETE)				
* CIL RE	TENT	ION I	RATIO	VALE:	(If	applicabl	.e)	·				
REMARKS:							ADEQUAT	E [ X ] E [ ]				
IOA AGRE THE DISC AS AN IS	REPAI	NCY F	RTWEE	N NAC	מ גיב	MEA/CIL AN H THE SUBS	D IOA ANAL YSTEM MANAC	YSES ARE MARKED				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-213	503E 0-2			SA DATA: ASELINE NEW	[ x	]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/E 8503 MCA AC POW		.Y					
LEAD ANALYST:	M. BRADWAY	•						
ASSESSMENT:								
CRITICAL: FLIGH	ITY RE	DUNDANC	Y SCREE	NS		CIL		
HDW/FU			В	С				
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [	P ] NA]	[ P ]	] ]	[ X	]	*
COMPARE [ /	] [	] [	N ]	[	]	[	]	
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REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA	/CIL AND HE SUBSY	) IOA	ANALYSI	ES A		MARKED

ASSESSMENT DATASSESSMENT ID:	MECH/VI	8 DM-8503J -2133-2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	8503	OM/EPD&C POWER REL	ΑY		
LEAD ANALYST:	M. BRAI	YAW			
ASSESSMENT:					
FLI	ALITY GHT	REDUNDAN	CY SCREE	ens	CIL ITEM
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REMARKS: IOA AGREES WIT THE DISCREPANC	BETWEEN	NASA FMEA	CIL AND	TOA ANALYS	FS ADE MADVER
AS AN ISSUE UN	TIL RESOLV	ED WITH TH	E SUBSY	STEM MANAGE	R.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/VDM-8503F	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/EPD&C 8503 MCA AC POWER RELA	.Y	
LEAD ANALYST:	M. BRADWAY		
ASSESSMENT:			
CRITICAL	<b></b> -	'I DCKHDI'O	CIL ITEM
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8: 05-6AB-213:	503I 9-2	NASA DATA: BASELINE NEW	
	MECH/VDM/E 8503 MCA AC POW			
LEAD ANALYST:	M. BRADWAY			
ASSESSMENT:				
CRITICALI FLIGHT		DUNDANCY SCREE	NS	CIL ITEM
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-85 05-6AB-2177	03A '-1	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/VDM/EF 8503 MCA AC POWE			
LEAD ANALYST:	M. BRADWAY			
ASSESSMENT:				
CRITICAL		DUNDANCY SCREEN	<b>NS</b>	CIL ITEM
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	MECH/VDM/E 8512 MODULATOR/		ATOR		
LEAD ANALYST:	M. BRADWAY	•			
ASSESSMENT:					
CRITICAL		DUNDANC	Y SCREE	ns	CIL ITEM
FLIGH HDW/FU	NC A		В	С	
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LEAD ANALYST:	M. BRADV	VAY .			
ASSESSMENT:					
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SUBSYSTEM: MDAC ID: ITEM:	MECH/VI 8513 GPC SO				
LEAD ANALYST:	M. BRA	DWAY			
ASSESSMENT:					
CRITI FL	CALITY IGHT	REDUNDAN	CY SCREENS		CIL
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ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/ VDI	1-021/0		NASA DATA: BASELINE NEW	
	MECH/VDM 8517 GPC SOF				
LEAD ANALYST:	M. BRADI	NAY			
ASSESSMENT:					
CRITICA		REDUNDANC	Y SCREEN	S	CIL ITEM
FLIG HDW/F		A	В	С	
NASA [ 2 /1 IOA [ 2 /1	R ] [	P ] [ P ] [	F ] [ NA] [	P ] P ]	[ X ] *
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RECOMMEN	<b>IA</b> D	CIC	NS:		(If	di	ff	ere	nt i	fro	om 1	NASA	۲)					
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THE DISC AS AN IS	REP	AN	CY F	BET	WEEN	N	AS	A FM	EA/	CI E	L A SUE	and Bsys	IO TEI	A ANA M MAN	LYSE IAGER	S A	RE	MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/VDM-8 05-6AB-225	508 52-1		NASA DATA BASELINE NEW	
	MECH/VDM/E 8508 MCA DIODE	PD&C			
LEAD ANALYST:	M. BRADWAY	!			
ASSESSMENT:					
CRITICAL: FLIGHT	ITY RE	DUNDANC	CY SCREE	ns	CIL ITEM
HDW/FU			В	С	<b>2.22.</b>
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COMPARE [ /	] [	] [	N ]	[ ]	[ ]
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* CIL RETENTION	RATIONALE:	(If app	plicable	ADEQUATE	[ X ]
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NAS	SA FMEA	/CIL AND HE SUBSY	IOA ANALYS	ES ARE MARKED

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SUBSYSTE MDAC ID:	EM:			55	02					R	ESIS	TOR					
LEAD ANA	LY	ST	:	J.	BAG	CHI	ER										
ASSESSME	NT	:															
	CR		ICAL: LIGH'				RI	EDUN	DAN	CY	SCR	EENS			CIL		
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ASSESSMENT D ASSESSMENT I NASA FMEA #:	D:	MECH/P	BD-5	504 1-1						SA DATA ASELINE NEW	ſ	x	]		
SUBSYSTEM: MDAC ID: ITEM:		MECH/P 5504 PAYLOA			રક	С	ONTRO	L	sw	ІТСН					
LEAD ANALYST	! <b>:</b>	J. BAC	HER												
ASSESSMENT:															
		ITY	RE	DUNDA	NC.	Y	SCREE	ENS	3		C:	IL TEM	[		
	LIGH W/FU		A			В			С						
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REMARKS: IOA AGREES THE DISCREP AS AN ISSUE	A MON		M NA	SA RMR	A, TI	/C HE	IL AN SUBS	D	IO	A ANALY	SES	<b>A</b> 1		MARK	ŒD

	2/17/88 MECH/PBD-5504A 05-6EB-2001-2	N.	ASA DATA: BASELINE [ NEW [ }	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBD/EPD&C 5504 PAYLOAD BAY DOORS	S CONTROL S	VITCH	
LEAD ANALYST:	J. BACHER			
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUNDANC	Y SCREENS	CIL	
HDW/FUN		В С	ITE	M
NASA [ 3 /1R IOA [ 2 /1R	] [P] [ ] [P]	F ] [ P P ]	] [ x ]	] <b>*</b>
COMPARE [ N /	) [ ] [:	и] [	] (	]
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* CIL RETENTION R	ATIONALE: (If app			
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IOA AGREES WITH TI THE DISCREPANCY BI AS AN ISSUE UNTIL	ETWEEN NACA EMEA/	CIL AND IOA E SUBSYSTEM	ANALYSES AF	RE MARKED

ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5507 NASA FMEA #: 05-6EB-2004-1 SUBSYSTEM: MECH/PBD/EPD&C								P		DATA ELINE NEW	[	x	]				
SUBSYSTEM MDAC ID:			550	7		EPD&											
LEAD ANA	LYST	:	J.	BAC	HER												
ASSESSME	NT:																
	CRIT	ICAL LIGH			R	EDUN	DANC	Y	SCR	EENS			C	IL CEM	[		
	_	W/FU			A			В		(	C				•		
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COMPARE	[	/	]		[	]	[	N	]	[	]		[		]		
RECOMMEN	DATI	ons:		(If	dif	fere	nt f	rc	om N	ASA)							
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REMARKS:	REPA	NCY	BET	WEEN	I NA	SA F	MEA/	C)	LL A	ND I	OA A	ANALYS MANAGE	SES	AF	₹E	MARK	ŒD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/PBD-	NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBD/ 5507 MAIN DC B											
LEAD ANALYST:	J. BACHER											
ASSESSMENT:												
CRITICAL: FLIGHT	CIL											
HDW/FU			В	С	ITEM							
NASA [ 3 /1R IOA [ 2 /1R	] [ P	] [	F ] F ]	[ P ] [ P ]	[ X ] * [ X ]							
COMPARE [ N /	] [	] [	]	[ ]	[ ]							
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REMARKS:	ADEQUATE [ X ] INADEQUATE [ ]											
IOA AGREES WITH T	CEMARKS:  TOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED.											
AS AN ISSUE UNTIL	RESOLVED	WITH THI	E SUBSYS	TOM ANALYSI STEM MANAGEI	S. AKE MARKED							

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/PBD-5508	NASA DATA: BASELINE [ NEW [										
	MECH/PBD/EPD&C 5508 MAIN DC BUS REL	AY										
LEAD ANALYST:	J. BACHER											
ASSESSMENT:												
CRITICAL	CIL ITEM											
FLIGH HDW/FU		в с	<b></b>									
NASA [ 3 /1R IOA [ 3 /3	] [ P ] ] [ ]	[F] [P]	[ X ] * [ X ]									
COMPARE [ /N	] [N]	[ N ] [ N ]	[ ]									
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REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5507B NASA FMEA #: 05-6EB-2005-1								NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTI MDAC ID: ITEM:				5507			D&C RELA	Υ									
LEAD ANA	ALY:	ST:	i	<b>у.</b> в	ACHE	R											
ASSESSMI	ENT	:															
	CR	ITIC.		Ϋ́		RED	UNDAN	CY	SCR	EENS	<b>;</b>			ΙL			
	FLIGHT HDW/FUNC					A		В			С		ITEM				
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COMPARE	[	/	]		[	]	E	N	]	[	]		[		]		
RECOMMEN	ľAdi	ONS	S:	(Ii	f di:	ffe	rent	fro	om N	ASA)							
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ASSESSMENT ASSESSMENT NASA FMEA	r I	D	:	MEC	ECH/PBD-5508A 5-6EB-2005-1										A DAT SELII NI		[	x	]	
SUBSYSTEM MDAC ID:	:			550	H/PE 8 N DC					Y										
LEAD ANAL	YSI	r:		J.	BACH	ER														
ASSESSMEN	T:																			
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**REMARKS:** 

ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/PBD-5507C NASA FMEA #: 05-6EB-2005-2 SUBSYSTEM: MECH/PBD/EPD&C								NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTI MDAC ID: ITEM:	EM:			55	507				&C RELA	Y								
LEAD ANA	ALY	ST	:	J.	BA	CH	ER											
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RECOMMEN	DAI	CIC	ns:		(If	di	fí	fer	ent :	fro	m	NASA)						
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REMARKS:																		
THE DISC	DA AGREES WITH THE FMEA/CIL. HE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED HE AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																	

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/PB	D-5508B			ASELINE [ NEW [	
SUBSYSTEM: MDAC ID: ITEM:	MECH/PB 5508 MAIN DC	D/EPD&C BUS REI	<b>L</b> AY			
LEAD ANALYST:	J. BACH	ER				
ASSESSMENT:						
	LITY	REDUNDA	ANCY SO	CREENS		CIL [TEM
FLIC HDW/I		A	В	С		
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* CIL RETENTION	RATIONAL	LE: (If	applic	able) AI INAI	EQUATE EQUATE	[ X ] [ ]
REMARKS: IOA AGREES WITHED ISCREPANCES AND ISSUE UNITED INC.	BETWEEN	NASA FM	EA/CIL THE S	AND IO	ANALYSE	s are marked

ASSESSME ASSESSME NASA FME	TK	I	D:		M	ECH/	PB	D-	55 10	04B -1								DA ELI N		[		]		
SUBSYSTE MDAC ID:	M:				5	504					)R	S (	COI	NTRO	L	SW	/IT	СН						
LEAD ANA	LYS	ST	:		J.	. BA	CH	ER																
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RECOMMEN	<b>LA</b> G	CIC	ONS	:		(If	đ:	if	fer	ent	: f	rc	m	NASZ	A)									
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PEMARKS.														]				JAT: JAT:			X	] ]		

REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/PBD-5 05-6EB-201	5504C LO-2	NASA DATA: BASELINE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBD/F 5504 PAYLOAD BA	PD&C AY DOORS CONTRO	L SWITCH					
LEAD ANALYST:	J. BACHER							
ASSESSMENT:								
CRITICA FLIG	łT	EDUNDANCY SCREE		CIL ITEM				
HDW/F	INC A	В	С					
NASA [ 2 /1 IOA [ 2 /1	R ] [ P R ] [ P	] [ P ] ] [ P ]	[ P ] [ P ]	[ X ] *				
COMPARE [ /	] [	] [ ]	[ ]	[ ]				
RECOMMENDATIONS	: (If dif	ferent from NAS	A)					
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* CIL RETENTION	RATIONALE:	(If applicable	ADEQUATE	[ X ]				

REMARKS:

ASSESSMENT ASSESSMENT NASA FMEA #	ID: 1	2/17/88 MECH/PBD 05-6EB-2	)-5505 2011-1			N	ASA DATA BASELINI NEV		]
SUBSYSTEM: MDAC ID: ITEM:	į	MECH/PBD 5505 FUSE, 1A		С					
LEAD ANALYS	т: з	J. BACHE	R						
ASSESSMENT:									
	TICALII	ľY	REDUN	DANCY	SCRE	ENS		CIL	
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COMPARE [	/ ]	1	]	[	]	[	]	[	]
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3	505 6-3	NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/ 3505 ET UMBILIC	EPD&C AL DOOR MODE S	WITCH								
LEAD ANALYST:	J. BACHER										
ASSESSMENT:											
CRITICAL	CIL ITEM										
FLIGH HDW/FU		В	С								
NASA [ 2 /1R IOA [ 3 /3	] [ P	] [ P ] ] [ ]	[ P ] [ ]	[ X ] *							
COMPARE [ N /N	] [ N	] [ N ]	[ N ]	[ N ]							
RECOMMENDATIONS:	(If diff	ferent from NAS	SA)								
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* CIL RETENTION	RATIONALE:	(If applicable	e) ADEQUATE INADEQUATE	[ X ]							
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU- 05-6ED-20	MECH/ETU-3506 BASELII 05-6ED-2026-3 NI										
SUBSYSTEM: MDAC ID: ITEM:	3506	506 T UMBILICAL DOOR MODE SWITCH										
LEAD ANALYST:	J. BACHER	1										
ASSESSMENT:												
CRITICAL: FLIGHT	CIL ITEM											
HDW/FU	IC A	В	С	IIEM								
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RECOMMENDATIONS:	(If dif	ferent from NAS	A)									
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* CIL RETENTION R	ATIONALE:	(If applicable	)									
REMARKS:	ADEQUATE [ X ] INADEQUATE [ ]											
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SUBSYSTE MDAC ID:				35	05		-	EPD&		R 1	<b>1</b> ODE	e sw:	ITC	СН						
LEAD ANA	\L\	ST	:	J.	BAC	HE	ER													
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		HD	W/FU	JNC			A			В			С							
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RECOMMEN	₹D₽	\TI	ONS:	:	(If	đi	ff	erer	nt :	fro	om 1	NASA	)							
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* CIL RI	ETI	ENT	ION	RAT	IONA	LE	E:	(If	apı	<b>p1</b> :	icak		AI I K TA	DEQUA	ATE ATE	[	x	]		
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AS AN IS	っつし	JE	UNT.	LLK	<b>EDOI</b>	۲۷۲	עי	MTII	J 11	ΠĽ	201	00 I O	TCI	ı MAI	AWGTI					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ET	U-3506A		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	3506		OR MODE SW	ITCH	
LEAD ANALYST:	J. BACH	ER			
ASSESSMENT:					
CRITICAI FLIGH		REDUNDAN	ICY SCREEN	S	CIL ITEM
	NC	A	В	С	TIEM
NASA [ 2 /1F IOA [ 3 /3	] [	P ] [	[ <b>q</b> ]	P ]	[ X ] *
COMPARE [ N /N	] [	N ] [	и ] [	n ]	[ N ]
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IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN I	NASA FMEA	/CIL AND THE SUBSYST	IOA ANALYSE TEM MANAGEF	S ARE MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-350	7	NASA DATA: BASELINE NEW	[ ]						
SUBSYSTEM: MDAC ID: ITEM:	3507	ECH/ETUD/EPD&C 507 ENTELRINE LATCH-STOW SWITCH								
LEAD ANALYST:	J. BACHER	. BACHER								
ASSESSMENT:										
CRITICAL	•	CIL ITEM								
FLIGH HDW/FU		В	С							
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] *						
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REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU-3 05-6ED-202	3508 27 <b>-</b> 2	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	3508	ECH/ETUD/EPD&C 508 ENTELRINE LATCH-STOW SWITCH							
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICAL FLIGH	ITY RE	DUNDANCY SCREEN	NS .	CIL					
HDW/FU	_	В	С	ITEM					
NASA [ 2 /1R IOA [ 3 /3	] [ P	] [P] [	<b>P</b> ]	[ X ] * [ X ]					
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RECOMMENDATIONS:	(If diffe	erent from NASA	۲)						
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* CIL RETENTION I	RATIONALE:	(If applicable)							
REMARKS:			ADEQUATE NADEQUATE	[ X ] [ ]					
IOA AGREES WITH THE DISCREPANCY E AS AN ISSUE UNTIL	ETWEEN NASA	FMEA/CTT. AND	IOA ANALYSE TEM MANAGER	S ARE MARKED					

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	: 2/17/88 MECH/ET 05-6ED-	ซ−3507A		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ET 3507 CENTELF		H-STOW SW	ттсн	
LEAD ANALYST:	J. BACH	IER			
ASSESSMENT:					
CRITIC FLI	HT		NCY SCREE	ens C	CIL ITEM
HDW/	FUNC	A	В	_	
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COMPARE [ /	]	[ ]	[ ]	[ ]	[ ]
RECOMMENDATION	5: (If o	different	from NAS	SA)	
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* CIL RETENTION	N RATIONA	LE: (If a	applicable	≥) ADEQUATE TNADEOUATE	_

REMARKS:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU- 05-6ED-20 MECH/ETUD 3508		NE	
LEAD ANALYST:			OW SWITCH	
ASSESSMENT:				
CRITICAL FLIGH HDW/FU	r	EDUNDANCY B	SCREENS C	CIL ITEM
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RECOMMENDATIONS:	(If diff	ferent from	n NASA)	
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* CIL RETENTION F	ATIONALE:	(If applic		[ X ]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	05-6ED-2	S-6ED-2028-3										
SUBSYSTEM: MDAC ID: ITEM:		I UMBILICAL DOOR OPEN-CLOSE SWITCH										
LEAD ANALYST:	J. BACHI	ER										
ASSESSMENT:  CRITICALITY REDUNDANCY SCREENS  CIL												
CRITICAL	YTI	REDUNDANC	Y SCREENS		ITEM							
FLIGH HDW/F		A	в с									
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* CIL RETENTION	RATIONA:	LE: (If ap	plicable) IN	ADEQUATE ADEQUATE	[ x ]							
REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.												

NASA FMEA #: SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU-351 05-6ED-2028- MECH/ETUD/EP 3510 ET UMBILICAL	MECH/ETU-3510 BASELINE 05-6ED-2028-3 NEW MECH/ETUD/EPD&C 3510 ET UMBILICAL DOOR OPEN-CLOSE SWITCH								
LEAD ANALYST: J. BACHER										
ASSESSMENT:										
CRITICAL: FLIGHT		NDANCY SCREE	:NS	CIL						
HDW/FUI		A B C								
NASA [ 2 /1R IOA [ 3 /3	] [ P ] ] [ ]	[ P ] [ ]	[ P ] [ ]	[ X ] * [ X ]						
COMPARE [ N /N	] [ N ]	[ N ]	[ N ]	[ ]						
RECOMMENDATIONS:	(If differe	nt from NAS	A)							
	] [ ]		(AD	[ ] D/DELETE)						
* CIL RETENTION R	ATIONALE: (If	applicable)	3 D.D	f V 1						
ADEQUATE [ X ]  REMARKS: INADEQUATE [ ]  IOA AGREES WITH THE FMEA/CIL.  THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED  AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.										
AN ISSUE UNTIL	RESOLVED WITH	H THE SUBSYS	TEM MANAGER.	, ARE MARKED						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-350	/17/88 NASA DATA: ECH/ETU-3509A BASELINE [ ] 5-6ED-2030-3 NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	3509	MECH/ETUD/EPD&C 3509 ET UMBILICAL DOOR OPEN-CLOSE SWITCH								
LEAD ANALYST:	J. BACHER	. BACHER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
HDW/FU		В	С							
NASA [ 2 /1R IOA [ 2 /1R	[ P ]	[ P ] [ [ P ] [	P ] P ]	[ X ] *						
COMPARE [ /	] [ ]	[ ] [	]	[ ]						
RECOMMENDATIONS:	(If diffe	rent from NASA	)							
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* CIL RETENTION	RATIONALE: (		ADEQUATE NADEQUATE	[ x ]						
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU-35 05-6ED-2030	10A -3	NASA DATA: BASELINE [ ] NEW [ X ]						
	3510	PD&C L DOOR OPEN-C	LOSE SWITCH						
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICALI FLIGHT		UNDANCY SCREE	NS	CIL					
HDW/FUN		В	С	ITEM					
NASA [ 2 /1R IOA [ 3 /3	] [ P ] ] [ ]	[ P ] [ ]	[ P ] [ ]	[ X ] * [ X ]					
COMPARE [ N /N	] [ N ]	[ N ]	[и]	[ ]					
RECOMMENDATIONS:	(If differ	ent from NAS	<b>A</b> )						
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* CIL RETENTION R	ATIONALE: (1	f applicable)							
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ASSESSMENT DA' ASSESSMENT ID NASA FMEA #:	TE: 2/17/8 : MECH/1 05-6E	88 ETU-3501G D-2126-2	<b>;</b>		ATA: INE [ ] NEW [ X ]					
SUBSYSTEM: MDAC ID: ITEM:	MECH/1 3501 RELAY	·								
LEAD ANALYST:	J. BA	CHER								
ASSESSMENT:										
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM										
	/FUNC	A	В	С						
NASA [ 3 IOA [ 2	/1R ] /1R ]	[ P ] [ P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]					
COMPARE [ N	/ 1	[ ]	[ ]	[ ]	[ ]					
RECOMMENDATIO	NS: (If	differer	nt from	NASA)						
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* CIL RETENTI	ON RATION	ALE: (If	applica	ADEQUA!	re [X] re [ ]					
INADEQUATE [ ] REMARKS: IOA AGREES WITH THE FMEA/CIL. THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.										

ASSESSME ASSESSME NASA FME	CNT	I	D:	ME	2/17/88 MECH/ETU-3503E D5-6ED-2126-2							NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID:				35	ECH/ETUD/EPD&C 5503 RELAY													
LEAD ANA	LYS	ST	:	J.	• BACHER													
ASSESSMENT:																		
CRITICALITY REDUNDANCY SCREENS FLIGHT										CIL ITEM  [ X ] * [ X ] [ ]  [ D/DELETE)								
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NASA IOA	]	3 2	/1R /1R	]		[	P P	]	]	F F	]	[	P P	] ]	;	x [ x	]	*
COMPARE	[	N	/	]		[		]	[		]	[		]		[	J	
RECOMMEN	DAT	ľIC	ONS:		(If	di	Ĺfi	fere	nt 1	fro	om N	ASA)						
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REMARKS: IOA AGRE THE DISC	REF	AN	ICY E	3ET	WEEN	IN	IAS	A FI	MEA/	′CI	LA	ND I	OA	ANALYS	SES	S AI	₹E	MARKED
AS AN IS	THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.																	

NASA DATA:

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	MECH/ET	U-3501	: [ x ]		
SUBSYSTEM: MDAC ID: ITEM:	MECH/ET 3501 RELAY	UD/EPD&C			
LEAD ANALYST:	J. BACH	ER			
ASSESSMENT:					
CRITICA FLIG	LITY	REDUNDA	NCY SCRE	ENS	CIL ITEM
	UNC	A	В	С	
NASA [ 2 /1 IOA [ 2 /1	R ] [ R ] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	] [	]	[ N ]	[ ]	[ ]
RECOMMENDATIONS	: (If d	lifferent	from NA	SA)	
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* CIL RETENTION	RATIONAL	LE: (If a	npplicabl	e) ADEQUATE INADEQUATE	[ X ] [ ]
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNT	BETWEEN	NASA FME	EA/CIL AN THE SUBS	D IOA ANALYS	SES ARE MARKED

ASSESSMI ASSESSMI NASA FMI	ENT	ID:	MECH,	/ETT	502 7 <b>-</b> 1		NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTE MDAC ID:	EM:		MECH, 3502 RELA		JD/	EPD&C									
LEAD ANA	LYS'	T:	J. B	ACHE	ER										
ASSESSME	ENT:														
		TICAL FLIGH	ITY T		RE	DUNDA	NCY	SCR	EENS	3			CIL ITE		
	H	DW/FU	NC		A		В			С		•			
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REMARKS: IOA AGRE THE DISC	REPA	MCY I	BETWEE	N N	ASI	A FMEA	/C:	IL AI	IN ND I	AD OA	EQUATE ANALYS	SES		•	MARKED
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3	2/17/88 NASA DATA: MECH/ETU-3501A BASELINE 05-6ED-2127-2 NEW							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/ 3501 RELAY	EPD&C							
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICAL: FLIGH	ITY RI	DUNDANC	Y SCREENS	5	CIL ITEM				
HDW/FU		I	В	С					
NASA [ 2 /1R IOA [ 2 /1R	] [ P ]	] [ ]	P ] [ F ] [	P ] P ]	[ X	] *			
COMPARE [ /	] [	] [1	и ] [	]	[	]			
RECOMMENDATIONS:	(If dif	ferent f	rom NASA	)					
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* CIL RETENTION	RATIONALE:	(If app	licable) I	ADEQUATE NADEQUATE	x ]	]			
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NA	SA FMEA/	CIL AND	IOA ANALYS	ES AF				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU-3502A 05-6ED-2127-2	: [ ] [ x ]				
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/EPD&C 3502 RELAY					
LEAD ANALYST:	J. BACHER					
ASSESSMENT:						
FLIGHT		CY SCREENS	CIL ITEM			
HDW/FUN	NC A	В С				
NASA [ 2 /1R IOA [ 3 /3	] [ P ] [ ] [	P ] [ P ] ]	[ X ] * [ X ]			
COMPARE [ N /N	] [ N ] [	иј [иј	[ ]			
RECOMMENDATIONS:	(If different f	from NASA)				
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* CIL RETENTION R	ATIONALE: (If app	olicable)				
REMARKS:		ADEQUATE INADEQUATE	[ ] [ X ]			
IOA AGREES WITH T THE DISCREPANCY B	ETWEEN NASA FMEA/	CIL AND IOA ANALYSE E SUBSYSTEM MANAGER	S ARE MARKED			

ASSESSMENT ASSESSMENT NASA FMEA	ID:	MEC	2/17/88 NASA DATA MECH/ETU-3501B BASELINE 05-6ED-2129-1 NEW							] 3						
SUBSYSTEM: MDAC ID: ITEM:		350	CH/ETU 01 LAY	JD/	EPD&	C										
LEAD ANALY	ST:	J.	BACH	ER												
ASSESSMENT	:															
CR	ITICA FLIC			RE	DUND	ANC	Y	SCR	EENS	5			L CEM		•	
	HDW/F			A			В			С						
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COMPARE [	/	1	ι		]	[	N	]	[		1	[		1		
RECOMMENDA	TIONS	S:	(If d	if	feren	t :	fr	om N	IASA	)						
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* CIL RETE	ENTIO	N RAT	IANOI!	E:	(If	ap	pl	icak	ole) I	IA IAN	DEQUATE DEQUATE	]	X	]		
REMARKS: IOA AGREES THE DISCRI	TO A NO	v pri	WEEN	NA	SA FN	ŒA I T	/C HE	IL Z	AND BSYS	IO2 TEI	A ANALY M MANAC	SES.	A	RE	MARKEI	)

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/17/88 MECH/ETU- 05-6ED-21	3503 29 <b>-</b> 1		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD 3503 RELAY	/EPD&C			
LEAD ANALYST:	J. BACHER				
ASSESSMENT:					
CRITICALI FLIGHT		EDUNDANCY	SCREENS	<b>3</b>	CIL
	IC A	E	3	С	ITEM
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] [ P	] [ F	] [	P ] P ]	[ X ] * [ X ]
COMPARE [ /	] [	] [ N	, j (	]	[ ]
RECOMMENDATIONS:	(If diff	erent fr	om NASA)		
[ /	] [	] [	] [		[ ] D/DELETE)
* CIL RETENTION R	ATIONALE:	(If appl	•		
REMARKS:			IN	ADEQUATE ADEQUATE	[ X ] [ ]
IOA AGREES WITH THE DISCREPANCY BEAS AN ISSUE UNTIL	ETWEEN NAS	A FMEA/C	IL AND IC SUBSYST	OA ANALYSE EM MANAGER	S ARE MARKED

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3501C	NASA DATI BASELINI NEV	
	MECH/ETUD/EPD&C 3501 RELAY		
LEAD ANALYST:	J. BACHER		
ASSESSMENT:			
CRITICAL		ANCY SCREENS	CIL ITEM
FLIGH HDW/FU		в с	
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ P ] [ F ] [ P ]	[ X ] * [ X ]
COMPARE [ /	] [ ]	[ N ] [ ]	[ ]
RECOMMENDATIONS:	(If different	t from NASA)	
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* CIL RETENTION	RATIONALE: (If	applicable) ADEQUATE INADEQUATE	[ X ]
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	BETWEEN NASA FM	EA/CIL AND IOA ANALY THE SUBSYSTEM MANAG	SES ARE MARKED

ASSESSMI ASSESSMI NASA FMI	ENT :	ID:	MECH	/ETU	-350: 130-2	3 <b>A</b> 2		BASEI	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTE MDAC ID:			MECH, 3503 RELAY		D/EP[	0&C									
LEAD ANA	LYST	r:	J. BA	CHE	R										
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		'ICAL 'LIGH'		]	REDUN	DANCY	SCF	REENS	CIL						
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NASA IOA	[ 2 [ 2	/1R /1R	]	[ ]	? ] ? ]	[ P	]	[ P ] [ P ]	[ X ] * [ X ]						
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IOA AGREE	ES W	ITH T	HE FMI	7A / C	TT.										

THE DISCREPANCY BETWEEN NASA FMEA/CIL AND IOA ANALYSES ARE MARKED AS AN ISSUE UNTIL RESOLVED WITH THE SUBSYSTEM MANAGER.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-3501	ECH/ETU-3501D BASELIN: 5-6ED-2131-1 NE							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/EPD 3501 RELAY	ELAY							
LEAD ANALYST:	J. BACHER								
ASSESSMENT:									
CRITICAL		NDANCY SCREENS	;	CIL ITEM					
FLIGH HDW/FU		В	С						
NASA [ 2 /1R IOA [ 2 /1R	] [ P ] ] [ P ]	[ P ] [ [ F ] [	P ] P ]	[ X ] *					
COMPARE [ /	] [ ]	[ N ] [	1	[ ]					
RECOMMENDATIONS:	(If differ	ent from NASA	)						
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* CIL RETENTION	RATIONALE: (I	f applicable) I	ADEQUATE NADEQUATE	[ X ]					
REMARKS: IOA AGREES WITH THE DISCREPANCY AS AN ISSUE UNTI	DEPUTERN NASA	FMEA/CLL AND	IOA ANALYS TEM MANAGE	ES ARE MARKED					

ASSESSM ASSESSM NASA FM	EN	T 1	D:		MI	ECH/	ET	U-	350 31-	)3B -1							ASA D. BASEL		[			
SUBSYST MDAC ID ITEM:	EM :	:			35	CH/ 03 LAY		UD	/EP	PD&C	2											
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ASSESSM	EN'	T:																				
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ASSESSMENT DANSSESSMENT IINASA FMEA #:	D:	MEC	ECH/ETU-3501E BASELING 05-6ED-2131-2 NEW								[		]		
SUBSYSTEM: MDAC ID: ITEM:		350	ELAY												
LEAD ANALYST	:	J.	BACHI	ER											
ASSESSMENT:															
				RE	EDUNI	OANC	Y	SCR	EENS	3			IL PEM	1	
	LIGH W/FU			A			В			С					
NASA [ 2 IOA [ 2	/1R	i ]	[	P P	]	[ [	P F	]	[	P P	]	[	X	]	*
COMPARE [	/	]	[		]	[	N	]	(		]	[		]	
RECOMMENDATI	ons:		(If d	if:	fere	nt i	fr	om 1	ASA	)					
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* CIL RETENT	rion	RAT	IONAL	E:	(If	ap	pΊ	ical			DEQUATE DEQUATE	[	x	]	
REMARKS: IOA AGREES V THE DISCREPA AS AN ISSUE	VOICE	חשום	wrrn	NΔ	SAF	MEA H T	/C HE	IL :	AND BSYS	IO.	A ANALY M MANAG	SES ER.	A	RE	MARKE

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-	MECH/ETU-3503C BASELINE 05-6ED-2131-2 NEW							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUE 3503 RELAY	)/EPD&C							
LEAD ANALYST:	J. BACHER	<b>t</b>							
ASSESSMENT:									
CRITICAL: FLIGHT	r	EDUNDAN	CY SCREE	ens	CIL ITEM				
HDW/FUI	NC A		В	С					
NASA [ 2 /1R IOA [ 2 /1R	] [ P	] [	P ] F ]	[ P ] [ P ]	[ X ] * [ X ]				
COMPARE [ /	] [	] [	<b>N</b> ]	[ ]	[ ]				
RECOMMENDATIONS:	(If dif:	ferent f	rom NAS	A)					
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* CIL RETENTION R	ATIONALE:	(If app	licable	)					
REMARKS:				ADEQUATE	[ <b>x</b> ]				
IOA AGREES WITH T THE DISCREPANCY B AS AN ISSUE UNTIL	ETWEEN NAS	ZA EMEA/	CIL AND E SUBSYS	IOA ANALYSE STEM MANAGER	S ARE MARKED				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU-35	001F 2-2	NASA DATA: BASELINE NEW								
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD/E 3501 RELAY	ELAY									
LEAD ANALYST:	J. BACHER										
ASSESSMENT:											
CRITICAL		DUNDANCY SCREE	NS	CIL ITEM							
FLIGH HDW/FU		В	С								
NASA [ 2 /1F IOA [ 2 /1F	[ P ]	] [P] ] [F]	[ P ] [ P ]	[ X ] *							
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ASSESSM ASSESSM NASA FM	ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/ETU NASA FMEA #: 05-6ED-2 SUBSYSTEM: MECH/ETU												ì	NASA DA BASEL		[	х <sup>:</sup>	) 1	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ETU	7-3522 250-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ETU 3522 DIODE	ID/EPD&C	:		
LEAD ANALYST:	J. BACHE	ER			
ASSESSMENT:					
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LEAD ANALYST:	J. BACHER											
ASSESSMENT:												
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LEAD ANALYST:	J. BACHE	ER			
ASSESSMENT:					
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ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/ETU-3522F NASA FMEA #: 05-6ED-2251A-2 SUBSYSTEM: MECH/ETUD/EPD&C														ASA I BASEI		[	]	
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LEAD ANALYST:	J. BACHEI	ર			
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LEAD ANALYST:	J. BACHER	₹			
ASSESSMENT:					
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ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/ETU-352 NASA FMEA #: 05-6ED-2251E SUBSYSTEM: MECH/ETUD/EE												]		SA DAT ASELIN NE						
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ASSESSMENT DATE: 2/17/88 ASSESSMENT ID: MECH/ETU-3522A NASA FMEA #: 05-6ED-2252-2 SUBSYSTEM: MECH/ETUD/EPD&C														ASA DA' BASELII NI	NE		x	] ]	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ETUD, 3523 DIODE	/EPD&C			
LEAD ANALYST:	J. BACHER				
ASSESSMENT:					
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LEAD ANALYST:	J. BACHER				
ASSESSMENT:					
CRITICAL		EDUNDANC	Y SCREEN	IS	CIL ITEM
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MDAC TD:	MECH/ADP 1507 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	ns	CIL ITEM
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1509 +28V CON				
LEAD ANALYST:	A.D. MOR	NTGOMERY			
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SUBSYSTEM MDAC ID:				152	H/ADP 1 V CON															
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	MECH/ADP 1534 +28V CON		<b>:</b>		
LEAD ANALYST:	A.D. MON	TGOMERY	?		
ASSESSMENT:					
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	MECH/AD 1536 +28V CC				
LEAD ANALYST:	A.D. MO	NTGOMER	Y		
ASSESSMENT:					
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	_	A	В	С	ITEM
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	MECH/ADI 1539 +28V COM				
LEAD ANALYST:	A.D. MON	ITGOMERY	•		
ASSESSMENT:					
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SUBSYSTEM: MDAC ID: ITEM:	1540	ADP/EPD&						
LEAD ANALYST:	A.D. N	ONTGOME	RY					
ASSESSMENT:								
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ASSESSMI	ENT	:												
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADE 1543 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1545 +28V COI	P/EPD&C			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
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MDAC ID:	MECH/A 1549 +28V C								
LEAD ANALYST:	A.D. M	ONTG	OMERY						
ASSESSMENT:									
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LEAD ANALYST	:	A.D. M	ONTG	OMERY							
ASSESSMENT:											
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	MECH/ADI 1501 +28V CON				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1503 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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ASSESSMI	ENT	<b>':</b>																	
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MDAC TD:	MECH/ADI 1505 +28V CON				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
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LEAD ANALYST:	A.D. MONTO	GOMERY			
ASSESSMENT:					
CRITICALI FLIGHT	TY RI	EDUNDANCY	SCREENS	5	CIL
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* CIL RETENTION R	ATIONALE:	(If appli			
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FAILURE OF SECOND LIFE/VEHICLE. IO REEVALUATION DUE CAUSE CANCELLATION	A HAKDWAKE TO DETERMI	CRITICAL NATION TH	יאמזז עידו.	DADED IDEE	-

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADE 05-6EE-2	9-1507 2002-2		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1507 +28V CON				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 1 /1 IOA [ 3 /1R	] [	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ X ] * [ X ]
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* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS:  FAILURE OF SECON LIFE/VEHICLE.  REEVALUATION DUI CAUSE CANCELLAT	IOA HARDV E TO DETE	IARE CRI' ERMINATIO	PTCALLTY (	TO CAUSE LO	OSS OF TER

ASSESSMI ASSESSMI NASA FMI	ent Ent Ea	! ! ! :	DATE: [D:	1/08 MECH 05-6	/88 /ADP- EE-20	-150 002-	8 2		NASA DATA: BASELINE [ ] NEW [ X ]									
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADI	P-1509 2002-2		NASA DATA BASELINE NEW	
MDAC ID:	MECH/ADI 1509 +28V COI				
LEAD ANALYST:	A.D. MOI	NTGOMERY	!		
ASSESSMENT:					
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* CIL RETENTION	RATIONAL	E: (If a	applicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: FAILURE OF SECON LIFE/VEHICLE. REEVALUATION DUI	OA HARDW	ARE CRI'	<b>TICALITY</b>	UPGRADED AFT	ER

CAUSE CANCELLATION OF MISSION.

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SUBSYSTE MDAC ID: ITEM:	M:			151										
LEAD ANA	LY	ST	:	A.D	. MOI	NTGOM	ERY							
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	[	2	/1R	]	[	Рј	[	F ]	[	ΡJ	(Al	[ <i>]</i> [DD/[		ETE)
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FAILURE ( LIFE/VEH) REEVALUAT CAUSE CAN	CI	Æ. M	DUE	DA H. TO	ARDWA DETER	RE CI MINA:	RITIC PION	ALITY	UPG	RADED	AFTI	ER		JLD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADP 05-6EE-2	-1511 002-2		NASA DATA: BASELINE NEW	[ x ]
	MECH/ADP 1511 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDAL	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 1 /1 IOA [ 3 /1R	] [	p ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ X ] *
COMPARE [ N /N	] [	N ]	[ N ]	[ N ]	[ ]
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REMARKS:  FAILURE OF SECON LIFE/VEHICLE.  REEVALUATION DUI CAUSE CANCELLAT	IOA HARDW E TO DETI	ERMINATIO			

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SUBSYSTI MDAC ID: ITEM:	em:	}		MECH 1512 +28V							·	_	
LEAD ANA	ALY	SI	<b>:</b>	A.D.	MONT	[GOME	RY						
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FAILURE ( LIFE/VEH) REEVALUAT CAUSE CAN	CIO	N	DUE	TO DE	PERMI	NATT							LD

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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EP 1513 +28V CONTAC									
LEAD ANALYST:	A.D. MONTGO	MERY								
ASSESSMENT:										
CRITICALI FLIGHT	TY REDI	JNDANCY SCRE	ENS	CIL						
HDW/FUN		В	С	ITEM						
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* CIL RETENTION R	ATIONALE: (I	f applicable	•							
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FAILURE OF SECOND LIFE/VEHICLE. 10 REEVALUATION DUE	A HARDWARE C TO DETERMINA	RTTTCAT.TTV t	IDCDANEN AFTE	מי						

CAUSE CANCELLATION OF MISSION.

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SUBSYSTE				MECH	/ADP/E										
MDAC ID: ITEM:				1514 +28V	CONTA	CT	#4								
LEAD ANA	LYS	ST:		A.D.	MONTO	OME	ERY								
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	CR				RI	EDUI	NDANCY	SCI	REENS			CI	L EM		
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REMARKS FAILURE LIFE/VEI REEVALUA CAUSE CA	OF HIC ATI	LE	. I	OA H	ARDWAR DETERM	E C IINA	RITICA TION I	TIT	Y UPGR	AUEU	Ari	ĽК			ULD

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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1515 +28V CO	P/EPD&C NTACT #4							
LEAD ANALYST:	A.D. MO	NTGOMERY							
ASSESSMENT:									
		REDUNDA	NCY SCREE	NS	CIL ITEM				
FLIG HDW/F		A	В	С					
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	CR	TI.	ICAL LIGH	IT!	Č		R	EDU	NDA	N	CY	s	CRE	EN.	s				C	IL		
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REMARKS:															IAI	EQU	AT	E	-		]	
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SUBSYSTE				MEC 151	H/ADP/	/EPD&C	2								
MDAC ID: ITEM:				+28	V CON										
LEAD ANA	LYS	T:		A.D	. MON'	TGOME	RY								
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	CRI		CAL LIGH	YTI		REDUN	DANCY	SCF					EM	i	
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	_					
LEAD AN	ALYST:	A.D. MOI	NTGOMER	Y		
ASSESSMI	ENT:					
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	HDW/FUN		A	В	С	ITEM
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IOA	[ 3 /1R	jį	Рj	[ ] [ F ]	[ P ]	[ X ] * [ X ]
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RECOMMEN	DATIONS:	(If di	fferent	from NA	SA)	
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* CIL RE	TENTION R	ATIONALE	: (If a	pplicable	<b>=</b> )	·
REMARKS:					INADEQUATE	[ ] [ ]
REEVALUAT	OF SECOND ICLE. IOA TION DUE T NCELLATION	O DETERM	(TNAMIA)	REQUIRED ICALITY U N THAT HA	TO CAUSE LOSS PGRADED AFTER RDWARE FAILUR	S OF RE WOULD

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SUBSYST MDAC ID ITEM:				1519	/ADP/I												
LEAD AN	ALY	ST	:	A.D.	MONT	GOME	RY										
ASSESSM	ENT	:															
	CR		ICAL LIGH		R	EDUN	IDAI	1CY	SCR	REENS	5				IL PEN	ví	
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REMARKS FAILURE		S	ECON	D ITE	M FUN	CTIC	N I	REQ	UIRE			EQUA:					
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REEVALUATION DUE TO DETERMINATION THAT HARDWARE FAILURE WOULD

CAUSE CANCELLATION OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADP-1 05-6EE-200	1520 02 <b>-</b> 2	NAS <i>I</i> BAS	A DATA: SELINE [ ] NEW [ X ]
	MECH/ADP/I 1520 +28V CONTA			
LEAD ANALYST:	A.D. MONTO	GOMERY		
ASSESSMENT:				
CRITICALI FLIGHT	ITY RI	EDUNDANCY	SCREENS	CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 1 /1 IOA [ 3 /1R	] [ ] [ P	] [ ] [ F	] [ ] ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [ N	] [ N	] [N]	[ ]
RECOMMENDATIONS:	(If dif	ferent fro	om NASA)	
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* CIL RETENTION 1	RATIONALE:	(If appli	ADE	QUATE [ ] QUATE [ ]
REMARKS: FAILURE OF SECON LIFE/VEHICLE. IO REEVALUATION DUE CAUSE CANCELLATION	DA HARDWARI TO DETERM	E CRITICAI INATION TH	LITY UPGRADI	ED AFTER

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SUBSYSTE MDAC ID:				1521	/ADP/I											
LEAD ANA	LYS	ST:														
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REMARKS: FAILURE LIFE/VER REEVALUA CAUSE CA	OF HIC ATI	LE ON	. I	OA HA	RDWAR ETERM	E C	RIT TIO	IC	ALIT	ED TO	CAU	SE LO D AFI	SS ER	0	F	ULD

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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1522 +28V CONTACT #4	i.											
LEAD ANALYST:	A.D. MONTGOMERY	•											
ASSESSMENT:													
CRITICAL: FLIGH	ITY REDUNDA	NCY SCREENS	CIL										
HDW/FUI		в с	ITEM										
NASA [ 1 /1 IOA [ 3 /1R	] [ ] ] [ P ]	[ ] [ ] [ F ] [ P ]	[ X ] * [ X ]										
COMPARE [ N /N	] [ N ]	[ N ] [ N ]	[ ]										
RECOMMENDATIONS:	(If different	from NASA)											
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* CIL RETENTION F	RATIONALE: (If a	•											
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ ]													
REEVALUATION DUE	FAILURE OF SECOND ITEM FUNCTION REQUIRED TO CAUSE LOSS OF												

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SUBSYSTE MDAC ID:				1523	H/ADP/H 3 V CONTA													
LEAD ANA	LYS	T:		A.D.	. MONT	GOMI	ERY											
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CAUSE CANCELLATION OF MISSION.

ASSESSMENT DATE: 1/08/88 ASSESSMENT ID: MECH/ADP-1532 NASA FMEA #: 05-6EE-2002-2															ASA DA' BASELI N		[		]	
SUBSYSTE MDAC ID: ITEM:	EM:			MEC 153: +28	2				•											
LEAD ANA	LY	ST	<b>:</b>	A.D.	. M(	ТИС	GOM	ERY	•											
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REMARKS:													IN		DEQUATE DEQUATE		[ [		]	
FAILURE ( LIFE/VEH) REEVALUAT CAUSE CAN	rci	Ж.	DUE	A HA TO D	RDW ETE	ARI RM]	E CR [NAT	ITI) IOI'	$\Gamma$	'ΔT.	·Tm	V II	DC	DZ	מג משת	יכוחי	<b>D</b>			LD

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NASA FMEA #:	05-6EE-2	2002-2			[ x ]
	MECH/ADI 1533 +28V CON	•	L		
LEAD ANALYST:	A.D. MON	NTGOMERY	7		
ASSESSMENT:					
CRITICALI FLIGHT		REDUNDA	NCY SCRE	ENS	CIL
HDW/FUN	-	A	В	С	ITEM
NASA [ 1 /1 IOA [ 3 /1R	] [	P ]	[	[ ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	n j	[ 11 ]	[и]	[ ]
RECOMMENDATIONS:	(If di	fferent	from NA	SA)	
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* CIL RETENTION F	RATIONALE	: (If a	pplicable		
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FAILURE OF SECOND	A HARDWA TO DETER	RE CRIT MINATIO	ICALITY U	JPGRADED AFT	ER

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADP 05-6EE-2	-1535 002-2		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADF 1535 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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* CIL RETENTION	RATIONAI	E: (If	applicable	e) ADEQUATE INADEQUATE	
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ASSESSMENT ASSESSMENT NASA FMEA		/88 /ADP-1536 EE-2002-2		NASA DAT BASELIN NE	A: E [ ] W [ X ]
SUBSYSTEM: MDAC ID: ITEM:	1536	/ADP/EPD&			. ,
		CONTACT	•		
LEAD ANALYS	T: A.D.	MONTGOMER	RY		
ASSESSMENT:					
	TICALITY FLIGHT	REDUND	ANCY SCR	EENS	CIL
Н	DW/FUNC	A	В	С	ITEM
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SUBSYSTEMDAC ID:				MECH 1537 +28V															
LEAD ANA	LYS	T:		A.D.	MON	)TC	OM	ERY											
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	MECH/ADP/EPD&C 1538 +28V CONTACT #4	
LEAD ANALYST:	A.D. MONTGOMERY	
ASSESSMENT:		
CRITICALI FLIGHT	TY REDUNDANCY SO	CREENS CIL ITEM
HDW/FUN	C A B	C
NASA [ 1 /1 IOA [ 3 /1R	] [ ] [ ] ] [ P ] [ F ]	[ ] [ X ] * [ X ]
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ntre/ Arutche. TO	ITEM FUNCTION REQUIR A HARDWARE CRITICALIT TO DETERMINATION THAT N OF MISSION.	INADEQUATE [ j

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADF 05-6EE-2	7-1539 002-2		NASA DATA: BASELINE NEW	_
MDAC TD:	MECH/ADE 1539 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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ASSESSMENT DATE: 1/08/88 ASSESSMENT ID: MECH/ADP-1541 NASA FMEA #: 05-6EE-2002-2 SUBSYSTEM: MECH/ADP/EPD&C							11 -2					N	IASA I BASEI		[		]		
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REMARKS:													IAI	DEQUAT	ΓE	Ì		]	
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ITEM: Lead analyst										
ASSESSMENT:										
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/08/88 MECH/ADI 05-6EE-	P-1543		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1543 +28V CO	P/EPD&C NTACT #2			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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ASSESSMI	ENT	<b>?:</b>												
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SUBSYSTEM: MDAC ID: ITEM:				MECH, 1545 +28V															
LEAD ANAL	YS	T:		A.D.	MON	TG	OMI	ERY											
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	F		JIGH V/FU			A				В			C	;					
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				NC	A	1	В		(	2	1	TE	EM	
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COMPARE	[	N	/N	]	[	]	[	]	ι	]				
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FAILURE LIFE/VE	OF																	OF	•	
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REEVALUATION DUE TO DETERMINATION THAT HARDWARE FAILURE WOULD

CAUSE CANCELLATION OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/AD	P-1548		NASA DATA BASELINE NEW									
	MECH/ADI 1548 +28V COI												
LEAD ANALYST:	A.D. MOI	NTGOMERY	?										
ASSESSMENT:													
CRITICAL FLIGH HDW/FU	T	REDUNDA A	NCY SCREE	ens C	CIL ITEM								
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COMPARE [ N /N	] [	и ј	[ N ]	[ N ]	[ ]								
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)									
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* CIL RETENTION	RATIONAL	E: (If a	applicable										
					•								
FAILURE OF SECON LIFE/VEHICLE. I REEVALUATION DUE	ADEQUATE [ ] INADEQUATE [ ] REMARKS: FAILURE OF SECOND ITEM FUNCTION REQUIRED TO CAUSE LOSS OF												

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SUBSYSTEM: MDAC ID: ITEM:	MECH/1 1549 +28V (								
LEAD ANALYST:	A.D. 1	MONTGO	MERY						
ASSESSMENT:									
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		A	1	3	С				
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	MECH/ADE 1550 +28V CON		<b>:</b>		
LEAD ANALYST:	A.D. MON	ITGOMERY	?		
ASSESSMENT:					
CRITICALI FLIGHT		REDUNDA	NCY SCREE	ens .	CIL ITEM
HDW/FUN	NC	A	В	С	
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LEAD ANALYST:	A.D. MONT	GOMERY	?							
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REMARKS:													IAI		ATE			]	
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SUBSYSTEMDAC ID: ITEM:				155	H/ADP/1 3 V CONT									
LEAD ANA	LYS	r:		A.D	. MONT	GOME	RY							
ASSESSMEI	T:													
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	HI	OW/	'FUI	NC	A		В		C	2				
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* CIL RET	rent	ric	N F	RATIO	ONALE:	(If	appl	<b>Lcab</b>	A	DEQUA'	[		]	
REMARKS:										XAU	 L		J	

FAILURE OF SECOND ITEM FUNCTION REQUIRED TO CAUSE LOSS OF LIFE/VEHICLE. IOA HARDWARE CRITICALITY UPGRADED AFTER REEVALUATION DUE TO DETERMINATION THAT HARDWARE FAILURE WOULD CAUSE CANCELLATION OF MISSION.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADI	2-1554 2002-2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1554 +28V CON	•			
LEAD ANALYST:	A.D. MON	NTGOMERY			
ASSESSMENT:					
CRITICAL: FLIGHT		REDUNDA	NCY SCRE	ENS	CIL ITEM
HDW/FUI		A	В	С	
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REMARKS: FAILURE OF SECON LIFE/VEHICLE. I REEVALUATION DUE CAUSE CANCELLATION	OA HARDWA TO DETE	ARE CRIT RMINATIO	TICALITY	UPGRADED AFT	rer

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SUBSYSTE MDAC ID:	M:	,		1555	I/ADP/E											
LEAD ANA	LYS	T:		A.D.	MONTG	OME	RY									
ASSESSME	NT:	:												_		
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ASSESSMI	ENT	<b>':</b>															
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ASSESSMENT ASSESSMENT NASA FMEA	T ID:	1/11/88 MECH/ADI 05-6EE-3	P-1	525A 3-1						SA DATA ASELINE NEW	[		]	
SUBSYSTEM MDAC ID: ITEM:	:	MECH/ADI 1525 +28V COI	P/E	PD&C				,						
LEAD ANAL	YST:	A.D. MO	NTG	OMERY	•									
ASSESSMEN'	T:													
c	RITICAL FLIGH	ITY T	RE	DUNDA	NC	Y:	SCREE	:NS	3			IL TEN	1	
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REMARKS: LOSS OF S APPARENT" NECESSARY	DURING	FLIGHT.		SECONI	ו ס	FA:	LURE	ED P	T( RE	D BE "RE	AD	ΙL	Y	1G

ASSESSMENT ASSESSMENT NASA FMEA	ID:	MECH/A	ADP-	1526A 03-1						ASA DATA BASELINI NET	E [		]	
SUBSYSTEM: MDAC ID: ITEM:		MECH/A 1526 +28V C	•		2									
LEAD ANALY	ST:	A.D. M	TONT	GOMER	Y		•							
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CR	ITICAL:	[TY	R	EDUNDA	ANC	Y	SCREE	:NS	3			ΙL		
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SUBSYSTEM MDAC ID:	I:	MECH/AD 1527 +28V CO				
LEAD ANAI	YST:	A.D. MC	NTGOMER	Y		
ASSESSMEN	NT:					
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REMARK	s:											IN	IAL	EQUATE EQUATE	į		]	
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ASSESSMENT ID: NASA FMEA #:	MECH/AD	P-1529A		BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1529 CONTACT				
LEAD ANALYST:	A.D. MO	NTGOMER)	ī.		
ASSESSMENT:					
CRITIC FLI		REDUNDA	ANCY SCRE	ENS	CIL ITEM
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* CIL RETENTIO	N RATIONAL	E: (If a	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF SECOND APPARENT" DURI NECESSARY AIR	NG FLIGHT.	SECONI	D FAILURE	ED TO BE "RE PRECLUDES O	ADILY

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADE 05-6EE-2	P-1531A 2003-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1531 CONTACT				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	1154
NASA [ 2 /1R IOA [ 3 /3		P ]	[ P ] [ ]	[ P ] [ ]	[
COMPARE [ N /N	] [	n j	[ N ]	[ N ]	[ N ]
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* CIL RETENTION	RATIONAL	E: (If a	applicable	a)  ADEQUATE  INADEQUATE	[ ]
REMARKS: LOSS OF SECOND F APPARENT" DURING NECESSARY AIR PR	FLIGHT.	SECON	D FAILURE	PRECLUDES C	ADILY BTAINING

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	MECH/A 05-6EE	8 DP-1524B -2003-2		NASA DATA BASELINE NEW	- •
SUBSYSTEM: MDAC ID: ITEM:	1524	OP/EPD&C	L		
LEAD ANALYST:	A.D. MO	ONTGOMERY	Ţ.		
ASSESSMENT:					
CRITIC FLI	ALITY GHT	REDUNDA	NCY SCRE	EENS	CIL
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REMARKS:				ADEQUATE INADEQUATE	[ ]
LOSS OF SECOND APPARENT" DURI NECESSARY AIR	NG FLIGHT.	SECOND	FATLURE	PRECLIDES OF	ADILY STAINING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADI 05-6EE-2	5-T252D		NASA DATA: BASELINE NEW					
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1525 +28V COI	P/EPD&C							
LEAD ANALYST:	A.D. MO	NTGOMERY							
ASSESSMENT:									
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM				
FLIGH HDW/FU		<b>A</b> .	В	С					
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RECOMMENDATIONS:	(If d	lifferent	from NAS	SA)					
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* CIL RETENTION	RATIONA	LE: (If a	applicable	e) ADEQUATE INADEQUATE	[ ]				
REMARKS: LOSS OF SECOND HARDWARE ITEM IS CONSIDERED TO BE "READILY APPARENT" DURING FLIGHT. SECOND FAILURE PRECLUDES OBTAINING NECESSARY AIR PRESSURE DATA FOR A SAFE DESCENT.									

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SUBSYST MDAC ID ITEM:				ME( 15: +28	26			EPD:										•	
LEAD AN	ALY	SI	<b>':</b>	A.I	٥.	MO	NT	GOMI	ERY										
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L/11/88 MECH/ADP-1527B D5-6EE-2003-2	NASA DATA: BASELINE NEW	
MECH/ADP/EPD&C 1527 -28V CONTACT #2		
.D. MONTGOMERY		
		CIL ITEM
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	ECH/ADP-1527B 05-6EE-2003-2 ECH/ADP/EPD&C .527 28V CONTACT #2 A.D. MONTGOMERY  Y REDUNDANCY A B  [ P ] [ P ]  [ N ] [ N  (If different from [ P ] [ P ]  TIONALE: (If appliance) EDWARE ITEM IS CONSELIGHT. SECOND FAI	BASELINE 05-6EE-2003-2  DECH/ADP/EPD&C 0527 028V CONTACT #2  A.D. MONTGOMERY  PY REDUNDANCY SCREENS  A B C  [ P ] [ P ] [ P ]  [ N ] [ N ] [ N ]  (If different from NASA)  [ P ] [ P ] [ P ]  (AI  TIONALE: (If applicable)  ADEQUATE INADEQUATE INADEQUATE

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LEAD ANALYST:	A.D. MOI	OTO	OMERY										
ASSESSMENT:													
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REMARKS: LOSS OF SECOND HA APPARENT" DURING	FLIGHT.	5	SECOND	F	'A	LURE	D PI	T(	D BE "REA	AD:	IL	Y.	1G

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	MECH/AL	/11/88 NASA DATA: ECH/ADP-1529B BASELINE 5-6EE-2003-2 NEW						[	x	]			
SUBSYSTEM: MDAC ID: ITEM:		MECH/AI 1529 CONTACT												
LEAD ANALYS	ST:	A.D. M	ЭТИС	OMERY										
ASSESSMENT:	•													
CR	ITICAL		RI	EDUNDA	ANC	Y:	SCREE	:NS	3		C1	[L PEM	1	
1	FLIGH HDW/FU		A			В			С					
	2 /1R 3 /3	1	[ P	]	[	P	]	[	P	]	[	x	]	*
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RECOMMENDA	TIONS:	(If	dif	feren	t	fro	om NA	SA	)					
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REMARKS: LOSS OF SECOND HARDWARE ITEM IS CONSIDERED TO BE "READILY APPARENT" DURING FLIGHT. SECOND FAILURE PRECLUDES OBTAINING NECESSARY AIR PRESSURE DATA FOR A SAFE DESCENT.														

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADD-1520D		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1530 CONTACT #2			]
LEAD ANALYST:	A.D. MONTGOMER	Y		
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUNDA	NCY SCREE	<b>1</b> S	CIL
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LOSS OF SECOND HAR APPARENT" DURING F NECESSARY AIR PRES	DWARE ITEM IS O LIGHT. SECOND SURE DATA FOR A	CONSIDERED FAILURE PI A SAFE DESC	TO BE "REAL RECLUDES OBT CENT.	OILY PAINING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/AD	P-1531B 2003-2	NASA DATA BASELINE NEW		
	MECH/ADI 1531 CONTACT	·	!		
LEAD ANALYST:	A.D. MOI	NTGOMER	Y		
ASSESSMENT:					
CRITICAL: FLIGH		REDUND	ANCY SCRI	EENS	CIL ITEM
HDW/FUI	NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /3	] [	P ]	[ P ] [ ]	[ P ] [ ]	[ x ] *
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REMARKS: LOSS OF SECOND HA APPARENT" DURING NECESSARY AIR PRI	FLIGHT.	SECON	D FAILURI	E PRECLUDES O	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/AD 05-6EE-	P-1524 2003-3		NASA DATA BASELINE NEW	[ ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1524 +28V COI	-			
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICAI FLIGH		REDUNDA	NCY SCRE	ens	CIL ITEM
HDW/FU	NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /1R	] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[
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* CIL RETENTION	RATIONAL	E: (If a	pplicable	ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF SECOND H APPARENT" DURING NECESSARY AIR PR	FLIGHT.	SECONE	FAILURE	ED TO BE "REA PRECLUDES O	ADILY

ASSESSME ASSESSME NASA FME	NТ	ID	):	1/11/ MECH/ 05-61	/ADF	)-1	.52! 3-:	5 3								LINE NEW	[		]	
SUBSYSTE MDAC ID: ITEM:				MECH, 1525 +28V																
LEAD ANA	LYS	T:	;	A.D.	MON	TC	MO	ERY												
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	FLIGHT							NDA	NC	Y	SCI	REE	NS	3				IL TE		
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADP-1526 05-6EE-2003-3		NASA DATA BASELINE NEW	-
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1526 +28V CONTACT #			
LEAD ANALYST:	A.D. MONTGOMER	Y		
ASSESSMENT:				
CRITICAL: FLIGHT	ITY REDUND.	ANCY SCREENS	5	CIL
HDW/FUR	-	В	С	ITEM
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* CIL RETENTION F	RATIONALE: (If a	applicable)		
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/11/88 MECH/ADP 05-6EE-2	7-1527 003-3			NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1527 +28V CON	•				
LEAD ANALYST:	A.D. MON	TGOMERY				
ASSESSMENT:						
CRITICAL: FLIGHT HDW/FUI	r	REDUNDA A	NCY B	SCREEN	s c	CIL ITEM
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LEAD ANA	LY	ST	:	A.D.	MO	NTO	GOMER	Y								
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NECESSARY AIR PRESSURE DATA FOR A SAFE DESCENT.

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SUBSYSTEM: MDAC ID: ITEM:	MECH/ADE 1529 CONTACT				
LEAD ANALYST:	A.D. MON	ntgomery			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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REMARKS: LOSS OF SECOND APPARENT" DURIN NECESSARY AIR F	יוישיא דים אי	> F.L.1.131	I LUTION		EADILY OBTAINING

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LEAD AN	ALY	SI	?:	A.D.	MC	TN	'GOI	MERY									
ASSESSM	ENT	!:															
	CRITICALITY FLIGHT HDW/FUNC							JNDAN	CY	SCI	REEN	s		c	:IL		
	FLIGHT HDW/FUNC NASA [ 2 /1R ]					A			В			С		Ι	TE	M	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1531 CONTACT				
LEAD ANALYST:	A.D. MC	NTGOMERY			
ASSESSMENT:					
CRITIC		REDUNDA	NCY SCREE	NS	CIL ITEM
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	MECH/ADF 1567 INVERTED											
LEAD ANALYST:	A.D. MON	ITGOM	ERY									
ASSESSMENT:												
CRITICAL		REDU	JNDANC	Y	SCREEN	1S			CI	L EN	ſ	
FLIGH HDW/FU		A		В			С					
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SUBSYST MDAC ID ITEM:	EM:	•		MECH, 1573 RELAY													•	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/12/88 MECH/ADE 05-6EE-2	2-1575 2004-1		NASA DATA BASELINE NEW	
MDAC ID:	MECH/ADI 1575 RELAY DI		2		
LEAD ANALYST:	A.D. MON	(TGOME)	RY		
ASSESSMENT:					
CRITICAL		REDUN	DANCY SCRE	ENS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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LEAD AN	AL	(SI	?:	A.D.	MO	NT	GOMI	ERY													
ASSESSMI	ENT	r:																			
	CF			ITY T		R	EDUN	IDAI	NC	Y	SCR	EEN	s					L			
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/12/88 MECH/ADE 05-6EE-2	2-1583 2004-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1583 RELAY	P/EPD&C			
LEAD ANALYST:	A.D. MO	NTGOMERY	!		
ASSESSMENT:					
CRITICAL		REDUNDA	ANCY SCREE	ens	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1566 INVERTE							
LEAD ANALYST:	A.D. MO	NTGOMER	Y					
ASSESSMENT:								
CRITICAL FLIGH		REDUND	ANCY SO	CREENS		CI	L	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1572 RELAY D				
LEAD ANALYST:	A.D. MO	NTGOMERY	7		
ASSESSMENT:					
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/13/88 MECH/AD 05-6EE-	P-1574		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1574 RELAY D				
LEAD ANALYST:	A.D. MC	NTGOMER'	Ţ.		
ASSESSMENT:					
CRITICA		REDUNDA	ANCY SCREE	ens	CIL ITEM
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LEAD AN	ALY	ST	:	A.D.	MO	NT	'GOMI	ERY									
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SUBSYSTI MDAC ID: ITEM:				MECH/ 1630 AMP	'ADP/	EPD&	С						
LEAD AND	ALY	ST	:	A.D.	TNOM	GOME:	RY						
ASSESSMI	ENT	:											
	CR		ICAL LIGH	ITY	R	EDUN	DANCY	SCR	EENS		CI	ւ	
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LOSS OF OF REDUN	TRA DAN	NS T	DUCE HARI	R DATA	TO CONSI	ADTA DERE	RENI	DERS ADILY	ADTA DET	INEFFE ECTABLE.	CTIVE	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	1631 14-1				SA DATA: ASELINE NEW	[ x	]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1631 AMP	EPD&C							
LEAD ANALYST:	A.D. MONT	GOMERY	?						
ASSESSMENT:									
CRITICAL		EDUNDA	MCY	SCREE	NS		CIL		
FLIGH HDW/FU		<b>\</b>	В		С				
NASA [ 3 /3 IOA [ 3 /3	] [	]	[	]	[	]	[ x	] <b>*</b>	
COMPARE [ /	] [	]	[	3	[	1	[ N	]	
RECOMMENDATIONS	(If di	fferen	t fr	om NAS	SA)				
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REMARKS: LOSS OF TRANSDU- OF REDUNDANT HA	CER DATA T RDWARE CON	O ADTA SIDERE	REN	DERS ADILY	ADTA DET	INEFFEC ECTABLE.	TIVE	. Los	S

ASSESSM ASSESSM NASA FM	ENT	ID:	MECH	/88  /ADP  EE-2	-163 014-	2 1		1	NASA DAT BASELIN NI	
SUBSYST MDAC ID ITEM:			MECH 1632 AMP	/ADP	/EPD	&C				•
LEAD AN	ALYS	T:	A.D.	MON	[GOM]	ERY				
ASSESSM	ENT:									
		TICAL FLIGH		F	EDUI	NDANCY	SCI	REENS		CIL
	H	DW/FU	NC	A		В		С		ITEM
NASA IOA	[ ;	3 /3	]	[	]	]	]	]	]	[ ] * [ X ]
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OF REDUN	DANT	HARD	WARE	CONS	DER	ED REA	DIL	ADTA Z DETE	INEFFEC CTABLE.	TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	-1633 )14 <b>-</b> 1				SA DATA: ASELINE NEW	[ [	]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1633 AMP	EPD&C						
LEAD ANALYST:	A.D. MON	rgo <b>me</b> ry	!					
ASSESSMENT:								
CRITICAL		REDUNDA	ANCY	SCREE	ns		CIL	I
FLIGH HDW/FU		A	В		С			
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COMPARE [ /	] [	]	[	]	[	1	[ N	1
RECOMMENDATIONS:	(If di	fferen	t fr	om NAS	SA)			
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REMARKS: LOSS OF TRANSDUCTOR OF REDUNDANT HAI	CER DATA T	O ADTA	REN	DERS ADILY	ADTA DET	INEFFEC ECTABLE.	TIVE	. Loss

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SUBSYST MDAC ID ITEM:				1634	/ADP/ MISTE			OME'	ľER							
LEAD AN	ALY	ST	<b>':</b>	A.D.	rnom	GOM	ERY									
ASSESSM	ENT	:														
	CR		ICAL LIGH	ITY	R	EDU	NDAN	CY S	CREE	NS			CI	L		
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NASA IOA	HDW/FT NASA [ 3 /3 IOA [ 3 /3				[ [	]	]	]		[	]		[	x	]	*
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OF REDUN	DAN	T	HARI	WARE	CONS	DER	ED R	EAD	ILY D	T'A ETI	INE ECTA	FFECT BLE.	'IVI	£.	1	Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	1635 14 <b>-</b> 1				SA DATA: ASELINE NEW	[	]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1635 THERMISTE		MOME	TER					
LEAD ANALYST:	A.D. MONT	GOMERY							
ASSESSMENT:									
CRITICAL		EDUNDA	NCA	SCREE	NS		CIL		
FLIGH HDW/FU		•	В		С				
NASA [ 3 /3 IOA [ 3 /3	] [	]	[	]	[	]	[ x	]	*
COMPARE [ /	] [	]	(	]	[	]	[ N	]	
RECOMMENDATIONS:	(If dif	ferent	t fr	om NAS	SA)				
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REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAR	ER DATA TO	ADTA	REN	DERS A	ADTA DET	INEFFEC ECTABLE.	TIVE		Loss

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SUBSYSTE MDAC ID:				16	36	_	/EPD& FECT		ısısı	ror								
LEAD ANA	LYS	T:		<b>A.</b>	D. M	ON'	rgome	RY										
ASSESSME	ENT:																	
			CALI			I	REDUN	DANC	Y SC	REEN	S				IL TEN			
		/FUI	_		2	A		В		С			1	I E.I	1			
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RECOMMEN	DAT	ION	is:		(If	dif	fere	nt f	rom	NASA	)							
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REMARKS: LOSS OF OF REDUN	TRAI DAN'	nsd T H	UCE IARE	R [	DATA RE C	TO SMC	ADT	A RE	NDER EADI	S AD7	ra.	INE	TEC'	riv	Æ.	J	Loss	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP-16 05-6EE-2014	337 3-1	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EF 1637 FIELD EFFEC	PD&C CT TRANSISTOR		
LEAD ANALYST:	A.D. MONTGO	MERY		
ASSESSMENT:				
CRITICAL	IS	CIL ITEM		
FLIGH HDW/FU		С		
NASA [ 3 /3 IOA [ 3 /1R	] [ P	] [ ] [ ] [ <b>F</b> ] [	] [ P ]	[ x ] *
COMPARE [ /N	] [N	] [N]	[и]	[ N ]
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REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAI	CER DATA TO RDWARE CONSI	ADTA RENDERS A DERED READILY	DTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSM ASSESSM NASA FM	ENT	' ]	D:	1/26, MECH, 05-61	/ADP	8		1	NASA D Basel		[	x	]	
SUBSYST MDAC ID ITEM:	EM:			MECH, 1638 CONTI										-
LEAD AN	ALY.	ST	<b>':</b>											
ASSESSMI	ENT	:												
	CR		ICAL LIGH	ITY	F	EDU	NDANC'	Y SCI	REENS			CII	L	
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	[	3	/1R	]	[ P	]	[ F	, 1	[ P	1	(AD	[ D/D	) EL	ETE)
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REMARKS:									INA	DEQUAT DEQUAT	E	[ [	]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1639 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADF 1639 CONTROL				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [	p ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ]	[и]	[и]	[ N ]
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REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS A	ADTA INEFFEC DETECTABLE	TIVE. LOSS

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SUBSYST MDAC ID ITEM:	EM :	:		MECH 1640 REAL	)				Z.							•	•		
LEAD AN	<b>A</b> L	YSI	r:	A.D.	MO	TN	GOM	ŒRY											
ASSESSMI	ENT	r:																	
	CF		'ICAL 'LIGH			R	EDU	NDAN	CY	s	CREEN	S				:IL			
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COMPARE	[		/N	]	[	N	]	[	N	]	[	N	]			N			
RECOMMEN	ΙDΑ	TI	ons:	(I:	f d:	ifi	fer	ent :	fro	om	NASA	)							
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* CIL RE	TE	NT:	ION F	(OITAS	IALE	:	(I1	app	)1 i	ica	ble)								
REMARKS:												IAD	EQU	JATE JATE	į		]		
LOSS OF OF REDUN	TRA DAI	ANS NT	DUCE HARD	R DAT	'A I	o SI	ADI DER	A RE	END	ER	S ADT	'A	INE	FFE	TI	Æ.	J	Loss	3

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SUBSYSTEM: MDAC ID: ITEM:		MECH/ADF 1641 READ ONI		Υ		
LEAD ANALY	ST:	A.D. MON	TGOMERY	?		
ASSESSMENT	<b>:</b>					
CF	RITICAL		NCY SC	REENS	CIL ITEM	
	FLIGHT HDW/FUI		A	В	С	
NASA (	3 /3 3 /1R	] [	p ]	[	[ ] [P]	[ x ] *
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RECOMMENDA	ATIONS:	(If di	ifferent	from	NASA)	
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REMARKS: LOSS OF TO OF REDUND	RANSDUC ANT HAR	ER DATA '	TO ADTA	RENDER D READI	S ADTA INEFI	FECTIVE. LOSS

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SUBSYST: MDAC ID ITEM:				MECH/ 1642 TRANS	•			P				
LEAD AN	ALYS	T:	;	A.D.	MONT	GOMER	Y					
ASSESSM	ENT:											
	CRI		CAL JIGH		R	EDUND	ANCY	SCRE	ENS		CIL	_
	H		/FU	_	A		В		c	:	ITEM	(
NASA IOA	[	3	/3 /3	]	[	]	[	]	[	]	[ [ x	] <b>*</b>
COMPARE	[		/	]	C	]	[	]	C	1	[ N	]
RECOMMEN	1DAT	'IO	NS:	(If	dif	feren	t fro	om NA	SA)			
	[	3	/1R	]	[ P	]	[ P	]	[ F		[ LDD/DE	
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REMARKS:	:									DEQUATE DEQUATE	[	]
LOSS OF OF REDUN	TRA	ns T	DUCI HARI	ER DATA	A TO	ADTA DEREI	RENI REA	DERS .	ADTA DET	INEFFEC	TIVE.	Loss

ASSESSMEN ASSESSMEN NASA FMEA	T II		1/26/8 MECH/A 05-6EE	DP-1	643 4-1				SA DATA: ASELINE NEW	[	x	]	
SUBSYSTEM MDAC ID: ITEM:	<b>[:</b>		MECH/A 1643 TRANSD			AMP	•						
LEAD ANAI	LYST	:	A.D. M	ONTG	OMERY								
ASSESSME	T:												
•	CRIT			RE	DUNDA	NCY	SCREE	:NS		CI	L EM	ĺ	
		LIGH W/FU		A		В		С					
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RECOMMEN	DATI	ons:	(If	dif	ferent	t fr	om NAS	5A)					
	[ 3	/1F	١ ]	[ P	3	[ P	1	[ P	[ ]	,DD	/DI	E <b>L</b> E	ETE)
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REMARKS:	TOTO A N	ISDU(	CER DAT	A TO CONS	ADTA IDERE	REN D RE	DERS ADILY	ADTA DEI	INEFFEC	TI	VE	•	LOSS

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SUBSYST MDAC ID ITEM:				MECH, 1644 AMP	/ADP/	EPD&	С						
LEAD AN	ALY	ST	:	A.D.	MONT	GOME	RY						
ASSESSMI	ENT	:											
	CR		ICAL LIGH	<del>-</del>	R	EDUN	DANCY	SCRE	ENS		CI		
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REMARKS:									INAI	DEQUATE DEQUATE	[	]	
LOSS OF OF REDUN	TRA DAN	NS IT	DUCE HARD	R DATA	A TO CONSI	ADTA DERE	RENI	DERS A	ADTA DETI	INEFFECTABLE.	CIVE	ē.	Loss

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ASSESSME	NT:																
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NASA IOA	[ 3	/3 /1R	]	]	P	]	[	F	]	] ]	P	]		[ :	X	] *	•
COMPARE	[	/N	]	[	N	1	[	N	3	[	N	]		[ ]	N	]	
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	[ 3	/1F	2 ]	[	P	]	[	P	]	(	P	]	(A	[ DD/			ΓE)
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REMARKS LOSS OF OF REDU	COTO A N	NSDUC LAH 1	CER I	DATA '	TO NS	ADT IDER	TAR RED	EN RE	DER ADI	S AI LY I	TA ET	INE	FFEC.	TIV	Έ.		Loss

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SUBSYST MDAC ID ITEM:		:		164	H/ADP/ 6 NSISTO		кC				
LEAD AN	AL:	YSI	:	A.D	. MONT	GOME	ERY				
ASSESSM	ENT	r:									
	CI		ICAI LIGH	LITY	R	EDUN	IDANCY	sci	REENS		CIL ITEM
		HD	W/FU	INC	A		E	3	(	C	1154
NASA IOA	[	3	/3 /3	]	[	]	]	]	]	]	[ ] * [ x ]
COMPARE	[	•	/	]	[	]	[	]	Ţ	]	[и]
RECOMMEN	IDA	TI	ons:	(1	f dif	fere	nt fr	om N	(ASA)		
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REMARKS: LOSS OF	TR	ANS	SDUC:	ER DA	TA TO	ADT	A REN	DERS	INA	DEQUATE INEFFEC	
OF REDUN	DA	NT	HAR	DWARE	CONG	ומשתו	ישת חש	ADTT	n bee	THEFFE	TIVE. LOSS

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1647 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&C														ASA DATA BASELINE NEW	] :	x	]	
SUBSYSTE MDAC ID:				MECH/ 1647 TRANS		•		С										
LEAD ANA	LYS	T:		A.D.	MON	TC	GOME	RY										
ASSESSME	NT:																	
CRITICALITY REDUNDAN FLIGHT										Y	SCRI	EENS	3			IL PEN	1	
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NASA IOA	[	3 3	/3 /1R	]	]	P	]		[	F	]	( (	P	]	[	x	]	*
COMPARE	[		/N	]	[	N	]	1	[	N	]	[	N	1	C	N	]	
RECOMMEN	<b>I</b> ADI	'IC	ns:	(II)	f di	ifi	fere	nt	f	rc	om NA	ASA	)					
	[	3	/1R	]	[	P	]		[	P	]	[	P		DD,	/DI	] ELF	ETE)
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REMARKS: LOSS OF OF REDUN	TRA															VE.	•	Loss

ASSESSMI NASA FMI	ENT I	D:	MECH/A	DP-			BASELIN		
SUBSYSTI MDAC ID: ITEM:			MECH/A 1648 AND GA		EPD&	С			
LEAD AND	ALYST	:	A.D. N	IONT	GOME	RY			
ASSESSMI	ENT:								
	CRIT	ICALI LIGHT		R	EDUN	DANCY	SCF	REENS	CIL ITEM
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	TRAN							S ADTA INEFFE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-2	2-1649 2014-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1649 AND GATI				
LEAD ANALYST:	A.D. MO	NTGOMERY	•.		
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	P ]	[	[ ] [ P ]	[ x ] *
COMPARE [ /N	) [	[ и ]	[ и ]	[и]	[ N ]
RECOMMENDATIONS	(If d	lifferen	t from NAS	SA)	
[ 3 /1]	R ]	[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONA	LE: (If	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE C	TO ADTA	RENDERS OF READILY	ADTA INEFFEC	CTIVE. LOSS

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	: MECH/A	88 ADP-1650 3-2014-1		NASA DATA BASELINI NET	
SUBSYSTEM: MDAC ID: ITEM:	1650	DP/EPD&C			•
LEAD ANALYST:	A.D. M	ONTGOMER	Y		
ASSESSMENT:					
	CALITY IGHT	REDUND	ANCY SCRE	ENS	CIL
HDW,	/FUNC	A	В	С	ITEM
NASA [ 3 /	/3 ] /1R ]	[ ] [ P ]	[ ] [ F ]	[ ] [ P ]	[ ] * [ X ]
		[ N ]	[ N ]	[ א ]	[и]
RECOMMENDATION	s: (If d	lifferent	from NA	SA)	
[ 3 /	•		[ P ]	(A)	[ ] DD/DELETE)
* CIL RETENTIO	n rational	E: (If a	pplicable	<b>&gt;</b> )	·
REMARKS: LOSS OF TRANSD	IICPD Dama	<b></b>		ADEQUATE INADEQUATE	į
LOSS OF TRANSD OF REDUNDANT H	ARDWARE CO	TO ADTA NSIDERED	RENDERS A READILY	DTA INEFFECT DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1651 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:					
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDAN	CY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	C	
NASA [ 3 /3 IOA [ 3 /1R	] [	] [ P ] [	F ]	[ ] [P]	[ x ] *
COMPARE [ /N	] [	и ј (	[ N ]	[и]	[и]
RECOMMENDATIONS:	(If d	ifferent	from NA	SA)	
[ 3 /1F	2][	P ]	[ P ]	[ P ]	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	pplicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAD	CER DATA RDWARE CO	TO ADTA NSIDERED	RENDERS READILY	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSM NASA FM	ENT	ID:	MECH	/ADI	2-165 2014-	2 1					DAT. ELIN NEI		]	
SUBSYSTI MDAC ID ITEM:			MECH 1652 BINA		P/EPD									
LEAD AND	ALYS'	T:	A.D.	MON	TGOM	ERY								
ASSESSMI	ENT:													
	1	FLIGH	_		REDUI	NDAN	CY	SCI	REENS	5		CIL ITEN	1	
	H	DW/FU	NC		A		В			С			•	
NASA IOA	[ :	3 /3 3 /1R	]	[	] P ]	]	F	]	]	] P ]		[ [ x	] * ]	
COMPARE	[	/N	]	[	и ј	[	N	]	[	и ј		[ и	]	
RECOMMEN	DATI	ONS:	(If	di	ffere	nt	fro	om N	IASA)					
	[ 3	/1R	]	[	P ]	[	P	]	[	P ]	(A	[ DD/DE	] LETE	)
* CIL RE	TENI	'ION E	RATION	ALE	: (If	ap	pli	.cab	le)					
REMARKS: LOSS OF OF REDUN	TRAN	SDUCE	ER DAT	ል ጥር	ייירו ג	ום ג	- Mr	FDC	IN	ADEQU ADEQU A INE	ATE	•	] ] LOS	ss
	~4 M T	ITUILL	MARC	CONS	T DEK	ED I	(LA	DIL	Y DE	<b>FECTA</b>	BLE.			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP-1653 05-6EE-2014-1		NASA DATA BASELINI NEV	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1653 BINARY COUNTER			
LEAD ANALYST:	A.D. MONTGOMERY			
ASSESSMENT:				
CRITICAL: FLIGHT	r	NCY SCRE	ENS	CIL ITEM
HDW/FUI	NC A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [ ] ] ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ X ]
COMPARE [ /N	] [N]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If different	from NA	SA)	
[ 3 /1R	] [P]	[ P ]	_	[ ] DD/DELETE)
* CIL RETENTION F	RATIONALE: (If an	pplicable	<b>a</b> )	
REMARKS:	(-3 -3 <u>-</u>		ADEQUATE INADEQUATE	
LOSS OF TRANSDUCE OF REDUNDANT HARD	ER DATA TO ADTA F DWARE CONSIDERED	ENDERS A	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-2	P-16 2014	54 -1				SA DATA: ASELINE NEW	[		]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1654 ADDRESS			Н							
LEAD ANALYST:	A.D. MO	NTGO	MERY								
ASSESSMENT:											
CRITICAL		RED	UNDANC	CY	SCREEN	S		CI	L EM		
FLIGH HDW/FU		A		В		С					
NASA [ 3 /3 IOA [ 3 /1R	] [	) P ]	[	F	] [	P	]	[	x	]	*
COMPARE [ /N	] [	N ]		N	) [	N	]	[	N	]	
RECOMMENDATIONS:	(If d	liffe	erent :	fro	om NASA	۷)					
[ 3 /1R	:][	P ]	] [	P	] [	P	] (A	DD,	/DE	] ELE	TE)
* CIL RETENTION	RATIONAL	E:	(If ap	pl:		A.	DEQUATE DEQUATE	[		]	
REMARKS: LOSS OF TRANSDUCTOR OF REDUNDANT HAS	CER DATA	TO A	ADTA R	ENI RE	DERS AN	OTA DET	INEFFEC	TI	VE.	,	Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	MECH/ADP-1655 BASELIR 05-6EE-2014-1 NI MECH/ADP/EPD&C											
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1655 ADDRESSA		гсн										
LEAD ANALYST:	A.D. MON	TGOMERY											
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT  FROM B C													
FLIGHT HDW/FUNC A B C													
NASA [ 3 /3 IOA [ 3 /1F	][·	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *								
COMPARE [ /N	] [	N ]	[и]	[и]	[и]								
RECOMMENDATIONS:	(If d	ifferent	from NAS	SA)									
[ 3 /11	R ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)								
* CIL RETENTION	RATIONAL	E: (If a	ipplicabl	e) ADEQUATE INADEQUATE	[ ]								
REMARKS: LOSS OF TRANSDU- OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA NSIDEREI	RENDERS D READILY	ADTA INEFFE DETECTABLE	CTIVE. LOSS								

ASSESSM ASSESSM NASA FM	ENT :	ID:	MECH	/AD	P-	165 14-	6						ASA DA Basela 1		[	x	]	
SUBSYST MDAC ID ITEM:			MECH 1656 AMP		<b>P/</b> :	EPD	&C											
LEAD AN	ALYSI	r:	A.D.	MOI	T	GOM	ERY											
ASSESSMI	ent:																	
		CICAL			RI	EDUI	NDA	N	CY	SCF	REEN	S			CI IT:	_		
	HE	W/FU	NC		A				В			C			11.	CM.		
NASA IOA	[ 3	/3 /1R	]	]	P	]		]	F	]	[	P	]		[ :	x :	]	*
COMPARE	[	/N	]	[	N	]		(	N	]	[	N	]		[ ]	N ]	)	
RECOMMEN	DATI	ons:	(If	di	ff	ere	nt	f	rc	m N	ASA)							
		/1R									[			(AD	[ D/[	) DEL	LE]	ľE)
* CIL RE	TENT	ION F	RATION	ALE	:	(If	ar	gc	li	cab.	le)							
REMARKS:											IN	ΆĽ	EQUATI	2	[ [	] ]		
LOSS OF OF REDUN	TRAN: DANT	SDUCE HARD	R DAT WARE	A TO	O SI	ADT DER	A F ED	E R	ND EA	ERS DIL	ADT Y DE	A TE	INEFFI	ECT:	[VE	:.	I	oss

ASSESSMI ASSESSMI NASA FMI	ent	I	D:	MEC	1/26/88 MECH/ADP-1657 05-6EE-2014-1										ASA D BASEL		[		]		
SUBSYSTI MDAC ID: ITEM:				MEC 165 AMP	<b>H/A</b> D 7	<b>P/</b> 1	EPD	&C													
LEAD ANA	ALYS	ST	:	A.D	. MO	NT	GOM	ERY													
ASSESSMI	ENT	:																			
	CR		ICAL:			R	EDU	NDA	N	CY	s	CREE	ENS	3				IL			
	I		LIGHT W/FUI			A				В				С			17	ren	1		
NASA IOA	[	3	/3 /1R	]	[	P	]		]	F	]		[	P	]		[	x	]	*	
COMPARE	[		/N	]	[	N	]		[	N	]		[	N	]		[	N	]		
RECOMMEN	VDA'	ΓΙC	ONS:	(:	If d	if	fer	ent	1	fro	om	NAS	A)	ı							
	[	3	/1R	]	[	P	]		[	P	]		[	P	]	(AI	[ \QC	/DF	] ELF	ETE	E)
* CIL RI	ETE	NT:	ION I	RATIO	ONAL	E:	(I	f a	pį	ol i	ica	able	:)								
													I		DEQUA' DEQUA'		[ [		]		
REMARKS:		ANS	SDUCE	ER DA	ATA '	го	ΑD	TA :	RI	ENE	ŒΕ	RS A	Dī	'A	INEF	FECT	ΓΙΊ	/E -		LC	SS
OF REDUN																					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/AD 05-6EE-	P-1658			NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1658 SWITCHI	•				
LEAD ANALYST:	A.D. MO	NTGOME	RY			
ASSESSMENT:						
CRITICAL FLIGH		REDUN	DANCY	SCREEN	S	CIL ITEM
HDW/FU		A	В		С	
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ [ F	] [	P ]	[
COMPARE [ /N	] [	N ]	[ N	] [	<b>N</b> ]	[ N ]
RECOMMENDATIONS:	(If d	iffere	nt fro	om NASA	)	
[ 3 /1F	. ] [	P ]	[ P	] [	P ] (A	[ DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	appl		ADEQUATE	•
REMARKS:				I	NADEQUATE	[ ]
LOSS OF TRANSDUC						TIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	-1659 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1659 SWITCHIN		₹		
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	P ]	[ ] [F]	[ ] [ P ]	[ x ] *
COMPARE [ /N	j [	<b>n</b> ]	[и]	[ N ]	[ N ]
RECOMMENDATIONS	(If d	ifferent	from NA	SA)	
		Р ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	applicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS D READILY	ADTA INEFFECTABLE	CTIVE. LOSS

SUBSYSTEM: MECH/ADP/EPD&C MDAC ID: 1660 ITEM: POLARITY DETECTOR  LEAD ANALYST: A.D. MONTGOMERY  ASSESSMENT:   CRITICALITY REDUNDANCY SCREENS CIL ITEM HDW/FUNC A B C  NASA [ 3 /3 ] [ ] [ ] [ ] [ ] * IOA [ 3 /1R ] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: INADEQUATE [ ]  LOSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.	ASSESSM ASSESSM NASA FM	ENT	•	ID:	M	L/26 IECH 05-6	/AI	)P-	-16 014	60 -1					1	NASA Base	LINE		x	]	
CRITICALITY REDUNDANCY SCREENS CIL ITEM  FLIGHT HDW/FUNC A B C  NASA [ 3 /3 ] [ ] [ ] [ ] [ ] *  IOA [ 3 /1R ] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: INADEQUATE [ ]  REMARKS: LOSS OF TRANSDUCER DATA TO ADMIN PROPERTY AND ADEQUATE [ ]	MDAC ID				1	660					'O'	R						-		•	
CRITICALITY REDUNDANCY SCREENS  FLIGHT HDW/FUNC A B C  NASA [ 3 /3 ] [ ] [ ] [ ] [ ] * IOA [ 3 /1R ] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TRANSDUCER DATA TO ADMANDED TO A DELAT DELATATIONALE TO A DELAT TO A DELAT DELATATIONALE.	LEAD AN	ALY	SI	?:	A	.D.	MO	NT	'GO	MERY	•										
FLIGHT HDW/FUNC A B C  NASA [3/3] [ ] [ ] [ ] [ ] *  IOA [3/1R] [ P ] [ F ] [ P ] [ X ]  COMPARE [ /N ] [ N ] [ N ] [ N ] [ N ]  RECOMMENDATIONS: (If different from NASA)  [3/1R] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: LOSS OF TRANSDUCER DATA TO ADMA PROPERTY AND ADMATIONALE [ ]	ASSESSM	ENT	:																		
NASA [3/3] [] [] [] [] *  IOA [3/1R] [P] [F] [P] [X]  COMPARE [ /N ] [N] [N] [N] [N] [N]  RECOMMENDATIONS: (If different from NASA)  [3/1R] [P] [P] [P] [P] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS: INADEQUATE []  LOSS OF TRANSDUCER DATA TO ADMA PROPERTY.			F	LIGH	T			R	EDI	UNDA	N	CY	sc	REEN	s				_		
IOA [3/1R] [P] [F] [P] [X]  COMPARE [/N] [N] [N] [N] [N]  RECOMMENDATIONS: (If different from NASA)  [3/1R] [P] [P] [P] [P] []  (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS:  INADEQUATE []  LOSS OF TRANSDUCER DATA TO ADMA DEVIATES AT TO ADMA DEV		]	HD	W/FU	NC			A				В			C			11	CM		
COMPARE [ /N ] [N] [N] [N] [N]  RECOMMENDATIONS: (If different from NASA)  [ 3 /1R ] [ P ] [ P ] [ P ] [ ] (ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  REMARKS:  LOSS OF TRANSDUCER DATA TO ADMA DEVIATE [ ]	NASA IOA	[	3 3	/3 /1R	]		]	P	]		[	F	]	[	P	]		[	x	]	*
[ 3 /1R ] [ P ] [ P ] [ P ] [ ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ] INADEQUATE [ ] LOSS OF TRANSDUCER DATA TO ADMA DEVENTE AND	COMPARE	[		/N	]		[	N	]	İ	[	N	]	[	N	]				_	
(ADD/DELETE)  * CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  REMARKS:  INADEQUATE [ ]  LOSS OF TRANSDUCER DATA TO ADMA DEVELTE:	RECOMMEN	DAT	I.	ONS:		(If	đ	Ĺfí	fer	ent	f	rc	m 1	NASA)	)						
ADEQUATE [ ] REMARKS: INADEQUATE [ ] LOSS OF TRANSDUCER DATA TO ADMA DEVELOPE							•							-	P	]	(AI		) EI	l Let	ľE)
ADEQUATE [ ] REMARKS: INADEQUATE [ ] LOSS OF TRANSDUCER DATA TO ADMA DEVELOPE	* CIL RE	TEN	TI	ON F	TAS	ION	ALE	::	(I	f ap	q	li	cak	ole)							•
LOSS OF TRANSDUCER DATA TO ADTA RENDERS ADTA INEFFECTIVE. LOSS OF REDUNDANT HARDWARE CONSIDERED READILY DETECTABLE.	REMARKS:													IN	AD	EQUA'	TE	L	]		
	LOSS OF 1	TRA DAN	ns T	DUCE HARD	R WA	DATA RE (	A T	o SI	AD DE	TA R RED	E R	ND: EA:	ERS DIL	ADT Y DE	A TE	INEF:	FECT LE.	IVE	•	I	oss

ASSESSME ASSESSME NASA FME	NT I	D:	1/26 MECH 05-6	/ADF								SASEI		[		]	
SUBSYSTE MDAC ID: ITEM:			MECH 1661 POLA		•			2	٠								
LEAD ANA	LYST	:	A.D.	MON	ITC	OME	RY										
ASSESSME	NT:																
	CRIT				RI	DUN	DANG	CY	SCR	EENS	5			CI	IL EM	r	
	_	LIGH W/FU	NC I.		A			В			С				. E.F.	•	
NASA IOA	[ 3	/3 /1R	]	[	P	]	[	F	]	[	P	]		[	x	]	*
COMPARE	[	/N	]	Į	N	]	[	N	]	[	N	3		[	N	]	
RECOMMEN	IDATI	ons:	(I	f di	if	fere	nt :	fro	om N	IASA	)						
	[ 3	/1R	]	[	P	1	[	P	]	ſ	P	]	(A)	[ OD,	/DI	] ELE	TE)
* CIL RI	ETENT	NOI	RATIC	NAL	Ε:	(If	ap	pl:	icak			DEQUA		[		]	
REMARKS: LOSS OF OF REDUI	TRAN	SDUC HAR	ER DA	TA T	ro Ns:	ADT IDER	A R	ENI RE	DERS ADII	S AD	TA ET	INE ECTA	FFEC	ΓI	VE.	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	-1662 014-1		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1662 CONTROL I				
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICAL FLIGH		NCY SCRE	ens	CIL ITEM	
HDW/FU		1	В	С	TIEM
NASA [ 3 /3 IOA [ 3 /1R	] [ ] [ P	) [	[ ] [ <b>F</b> ]	[ ] [ P ]	[
COMPARE [ /N	] [ N	<b>i</b> ] (	[и]	[ N ]	[ N ]
RECOMMENDATIONS:	(If dif	ferent	from NA	SA)	
[ 3 /1R	] [ P	· ] [	[ P ]	[ P ]	[ ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If ap	plicable	e)	
REMARKS:				ADEQUATE INADEQUATE	[ ]
LOSS OF TRANSDUC OF REDUNDANT HAR	ER DATA TO	ADTA F	RENDERS A	ADTA INEFFECT	rive. Loss

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP-1663 05-6EE-2014-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD& 1663 CONTROL LOGIC			
LEAD ANALYST:	A.D. MONTGOME	ERY		
ASSESSMENT:				
CRITICA		NDANCY SCRE	ENS	CIL ITEM
FLIG HDW/F		В	С	
NASA [ 3 /3 IOA [ 3 /1		[ ] [ F ]	[ P ]	[ x ] *
COMPARE [ /N	] [N]	[и]	[и]	[и]
RECOMMENDATIONS	: (If differ	ent from NA	(SA)	
[ 3 /1		[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALE: (1	f applicab	le) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDO OF REDUNDANT H	ICER DATA TO AI ARDWARE CONSIDI	OTA RENDERS ERED READIL	ADTA INEFFE Y DETECTABLE	CTIVE. LOSS

ASSESSM ASSESSM NASA FM	EN'	r :	ID:	M	L/26 TECH )5-6	/AI	P-	-166 014-	54 -1					ı	IASA DA BASELI N		[	x	]
SUBSYST MDAC ID ITEM:	EM:	:		1	ECH .664 EGI			EPE	0&C								•		,
LEAD AN	AL	'SI	<b>!:</b>	A	.D.	MO	NT	'GOM	ERY										
ASSESSMI	ENI	<b>:</b>																	
		F	'ICAI	T			R	EDU	NDAI	NC.	Y	SCI	REEN	s			CII ITI		
		HD	W/Ft	JNC			A			]	В			С			T 1.1	cm	
NASA IOA	[	3 3	/3 /1F	] } ]		[	P	]	[	1	F	]	]	P	]		[ ]	, ] <b>,</b> ]	*
COMPARE	(		/N	]		[	N	]	(	1	1	]	[	N	]			1]	
RECOMMEN	DA'	TI	ons:		(If	d:	if	fere	∍nt	fı	<b>:</b> 01	n N	IASA)	)					
	[	3	/1R	]		[	P	]	[	F	• :	]	[	P	_			] ELI	ETE)
* CIL RE	TEI	T]	ON :	RAT	'ION	ALE	:	(If	ap	pl	ic	ab	le)						•
REMARKS:													IN	AD	EQUATE EQUATE	į		]	
LOSS OF '	I'RA Dan	INS IT	DUC!	er Dwa	DATA	A T	O ST	ADT	A R	EN PF	DE	RS	ADT	A	INEFFE	CTI	VE		LOSS

ASSESSME ASSESSME NASA FME	NT ID:	MECH	/88 /ADP-1665 EE-2014-1			TA: INE [ ] NEW [ X ]
SUBSYSTE MDAC ID: ITEM:	M:	1665	/ADP/EPD&C			
LEAD ANA	LYST:	A.D.	MONTGOMER	Y		
ASSESSME	NT:					
		CALITY	REDUND	ANCY SCRI	EENS	CIL ITEM
		IGHT /FUNC	A	В	С	
NASA IOA	[ 3 ,	/3 ] /1R ]	[ ] [ P ]	[ ] [ F ]	[ ] [ P ]	[ ] * [ X ]
COMPARE	[ ,	/N ]	[и]	[ N ]	[ N ]	[ N ]
RECOMMEN	IDATIO	<b>NS: (</b> ]	[f differen	nt from N	ASA)	
	[ 3 ,	/1R ]	[ P ]	[ P ]	[ P ]	[ ] (ADD/DELETE)
* CIL RI	CTENTI	ON RATIO	ONALE: (If	applicab	le) ADEQUA INADEQUA	•
REMARKS: LOSS OF OF REDUI	TRANS	DUCER DA	ATA TO ADTA E CONSIDERA	A RENDERS ED READIL	ADTA INEF Y DETECTAB	FECTIVE. LOSS

ASSESSME ASSESSME NASA FME	ENT ID	TE:	1/26/ MECH/ 05-6E	ADP-				NASA DAT BASELIN NE	
SUBSYSTE MDAC ID:			MECH/ 1666 DISCR	•			FER		
LEAD ANA	LYST:		<b>A.D.</b> 1	rnom	GOME	RY			
ASSESSME	NT:								
	CRITI FL	CALI		F	REDUN	DANCY	SCR	EENS	CIL ITEM
	HDW	/FUN	С						
NASA IOA	[ 3	/3 /1R	]	[ [ F	)	[ [ F	]	[ ] [ P ]	[ ] * [X]
COMPARE	[	/N	]	[ N	]	[ N	]	[ N ]	[ N ]
RECOMMEN	DATIO	NS:	(If	dif	fere	nt fr	om N	ASA)	
	[ 3	/1R	]	[ F	]	[ P	]	[ P ]	[ ] ADD/DELETE)
* CIL RE	TENTI	ON R	ATION	ALE:	(If	appl	icab	le)	
REMARKS:								ADEQUATE INADEQUATE	į į
LOSS OF OF REDUN	TRANS! Dant 1	DUCE HARD	R DATA	TO CONS	ADTA IDERI	A REN ED RE	DERS ADIL	ADTA INEFFECTABLE	CTIVE. LOSS

ASSESSMEN ASSESSMEN NASA FMEA	T II		MECH	5/88 I/ADP SEE-2	-1 01	667 <b>4-</b> 1						SA DA ASEL:			] [ ]		
SUBSYSTEM MDAC ID: ITEM:	<b>4:</b>		1667	H/ADP 7 CREET				FF	ER								
LEAD ANA	Lyst	:	A.D	. MON	TG	OME	RY										
ASSESSME	NT:																
(	CRIT	ICAL LIGH			RE	DUN	DANC	CY	SCF	REENS	3			CI			
			В			С											
NASA IOA	[ 3	/3 /1R	]	[	P	]	[	F	]	[	P	] ]		[ :	X	) * ]	
COMPARE	[	/N	3	ſ	N	]	(	N	]	[	N	)		[ ]	N	]	
RECOMMEN	DATI	ons:	(	If di	L <b>f</b> 1	fere	nt :	fr	om I	NASA	)						
	[ 3	/1R	1	ι	P	3	[	P	]	[	P	]	(A)		DE	] LET	E)
* CIL RE	TENT	NOI	RATI	ONAL	Ξ:	(If	ap	pl	ica			DEQU <i>I</i> DEQU <i>I</i>				]	
REMARKS:	TRAN	SDUC	CER D	ATA '	TO NS:	ADI IDEF	TAR RED	EN RE	DER ADI	S AD	TA ET	INEI ECTAI	FEC	TIV	E.	I	Loss

ASSESSM ASSESSM NASA FM	ENT ]	D:	1/26 MECH 05-6	/ADP-	8 1			NASA DA BASELI N					
SUBSYST MDAC ID ITEM:			MECH, 1668 SERI			&C LEL CO	NVE	RTER					
LEAD AN	ALYST	<b>:</b> :	A.D.	MONT	'GOM	ERY							
ASSESSMI	ENT:												
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM HDW/FUNC A B C													
	HD	W/FU	NC	A		В			C				
NASA IOA	[ 3	/3 /1R	]	[ [ P	]	[ [ <b>F</b>	]	[ :	] P ]	[ ] * [ X ]			
COMPARE	[	/N	]	[ N	]	[ 1	]	[ ]	<b>v</b> ]	[ N ]			
RECOMMEN	IDATI	ons:	(If	dif	fere	ent fr	om N	IASA)					
	[ 3	/1R	]	[ P	]	[ P	]	[ ]		[ ] (ADD/DELETE)			
* CIL RE	TENT	ION F	RATION	ALE:	(If	appl	icab	le)					
REMARKS:									ADEQUATI ADEQUATI				
LOSS OF OF REDUN	TRAN: DANT	SDUCE HARD	R DAT	'A TO CONS	ADT IDER	A RENI	DERS ADIL	ADTA Y DEI	INEFFI	ECTIVE. LOSS			

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1669 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&C													N		SA DATA: ASELINE NEW	[	x	]	
SUBSYSTEM MDAC ID:	1:			MECH/A 1669 SERIAL					С	ON	VEI	RTER	ł						
LEAD ANA	LYS	T:		A.D. M	(O)	ITG	OMER	Y											
ASSESSME	NT:	:																	
•	CR]		CAL			RE	DUND	Al	1C	Y	SCI	REEN	IS				(L EN		
				В				С											
NASA IOA	HDW/FUNC A  NASA [ 3 /3 ] [ ]  IOA [ 3 /1R ] [ P ]									F	]	{ 	[	P	]	[	x	]	*
COMPARE	[		/N	1	(	N	]		[	N	]	1	[	N	1	[	N	]	
RECOMMEN	'DA'	TI	ons:	(If	d	if:	fere	nt	1	Ere	mc	NAS	A)						
			/1R		[	P	]		[	P	]		[	P	] (A	DD.	/D	ELJ	ETE)
* CIL RE	ETE	TK	ION	RATION	AL	E:	(If	a	.pj	ρl	ica				DEQUATE DEQUATE	[		]	
REMARKS: LOSS OF OF REDUM	OT.	LAN LNT	SDUC HAF	ER DAT	A CC	TO NS	ADT IDER	A EL	R	EN RE	DEF ADI	RS A	DI DI	ra ET	INEFFEC	TI.	VE	•	Loss

ASSESSM NASA FM	ENT	ני:	D:	MECH	/88 /AC EE-	P- 20	·167	70 -1					N	IASA DA' BASELII NI			] ( )	
SUBSYST MDAC ID ITEM:				MECH 1670 OSCI				)&C									-	
LEAD AN	ALY	ST	' <b>:</b>	A.D.	MO	NT	GOM	ERY										
ASSESSM	ENT	:																
		F	ICAL LIGH W/FU			R:		NDA	NC		sc	REEN				II.		
W) C)										В			С					
NASA IOA	[	3	/3 /1R	]	[	P	]	İ	[ [	F	]	[ [	P	]	[ [	x	]	*
COMPARE	[		/N	]	[	N	]	İ	[	N	]	[	N	]	[	N	]	
RECOMMEN	IDA:	ri	ONS:	(II	f d:	if1	fer	ent	f	rc	m l	NASA	)					
	[	3	/1R	]	[	P	]	(	•	P	]	[	P	-	] ADD	/D	ELI	ETE)
* CIL RE	TEN	T	ON F	NOITAS	IALI	E :	<b>(I</b> 1	f ar	p	li	cal	ble)						
REMARKS:												I	IAI	EQUATE EQUATE	Ì		]	
LOSS OF OF REDUN	TRA	it	DUCE HARD	R DAT	'A I	o Isi	AD1	ra r Red	E R	ND EA	ERS DII	S ADI	'A ETE	INEFFE CTABLE	CTI'	VE.	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-	5-TO\T		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1671 OSCILLA				
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICAL	ens	CIL ITEM			
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	] P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	) (	[ N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If o	differen	t from NA	SA)	
[ 3 /1]		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONA	LE: (If	applicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE C	TO ADTA	A RENDERS ED READILY	ADTA INEFFEC	TIVE. LOSS

ASSESSMI ASSESSMI NASA FMI	ENT ]	[D:	1/26, MECH, 05-61	/AD	P-	167 14-	2 1					ŀ	IASA DA' BASELII N			] ( )	
SUBSYSTE MDAC ID:			MECH, 1672 2 MH2				&C									•	
LEAD ANA	LYSI	?:	A.D.	MON	1T	GOMI	ERY										
ASSESSME	NT:																
		'ICAL 'LIGH'			RI	EDUN	NDA	NC	Y	SCR	EEN	S			IL		
	HD	W/FUI	NC		A			j	В			С		1	TE	M	
NASA IOA	[ 3	/3 /1R	]	]	P	]		[ [ ]	F	]	[	P	]	]	x	]	*
COMPARE	[	/N	]	[	N	]	Į	[ ]	1	]	ί	N	]		N		
RECOMMENI	DATI	ons:	(If	di	ff	ere	nt	fı	0:	m N	ASA)						
	[ 3	/1R	]	[	P	]	Į.	F	•	]	[	P		[ ADD,	/DI	] ELF	TE)
* CIL RET	[ENT]	ON R	ATION	ALE	:	(If	ap	pl	i	cab]	le)						•
REMARKS:											IN	ΆĽ	EQUATE EQUATE	]		]	
LOSS OF I	'RANS ANT	HARD	R DATA WARE (	ONS	O . SI	ADT:	AR ED	EN RE	DI Al	ERS DILY	ADT DE	A TE	INEFFEC	TIV	E.		Loss

ASSESSME ASSESSME NASA FME	ENT I	D:	MECH/P	/26/88 ECH/ADP-1673 5-6EE-2014-1								ASA DATA: BASELINE NEW	[		]	
SUBSYSTE MDAC ID: ITEM:			MECH/F 1673 2 MH2		•											
LEAD ANA	LYST	:	A.D. N	ION	TO	OMER	Y									
ASSESSME	ENT:															
		LIGH'	r			EDUND	AN		SCRE	ENS				IL CEM	ſ	
	HD	W/FUI	NC		A			В			С					
NASA IOA	[ 3 [ 3	/3 /1R	]	[	P	]	]	F	]	]	P	]	]	x	]	*
COMPARE	[	/N	]	[	N	]	[	N	1	[	N	]	[	N	]	
RECOMMEN	ITADI	ons:	(If	di	fí	feren	t:	fro	om NA	SA)	)					
	[ 3	/1R	]	[	P	]	[	P	]	[	P	] (A		/DE		ETE)
* CIL RI		ION 1	RATION	ALE	:	(If	ap)	pl:	icabl		IA IAV	DEQUATE DEQUATE	[		]	
REMARKS: LOSS OF OF REDUI	TRAN											INEFFECT	rI	VE.	ı	Loss

ASSESSMENT DA ASSESSMENT II NASA FMEA #:		ADP-1674		NASA DAT BASELIN NE	
SUBSYSTEM: MDAC ID: ITEM:	1674	ADP/EPD&C	!		
LEAD ANALYST:	A.D.	MONTGOMER	Y		
ASSESSMENT:					
	ICALITY LIGHT	REDUND	ANCY SCRE	EENS	CIL ITEM
	/FUNC	A	В	С	
NASA [ 3 IOA [ 3	/3 ] /1R ]	[ ] [ P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ x ]
COMPARE [	/N ]	[ N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIO	ONS: (If	differen	t from NA	ASA)	
[ 3	/1R ]	[ P ]	[ P ]		[ ] ADD/DELETE)
* CIL RETENT	ON RATION	ALE: (If	applicabl	.e) ADEQUATE	. [ ]
REMARKS: LOSS OF TRANS	SDUCER DAT	A TO ADTA	RENDERS	INADEQUATE	įį
OF REDUNDANT	HARDWARE	CONSIDERE	D READILY	DETECTABLE	•

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/AD 05-6EE-	P-1675 2014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1675 1 MH2 C				
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F		[ ] [ P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N		[и]	[ N ]	[и]	[и]
RECOMMENDATIONS	: (If	differen	t from NAS	SA)	
[ 3 /1		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONA	LE: (If	applicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA	TO ADTA	A RENDERS ED READILY	ADTA INEFFE DETECTABLE	CTIVE. LOSS

assessi Assessi Nasa Fi	ŒN]	ַן י	D:	MECH	1/26/88 MECH/ADP-1676 05-6EE-2014-1 MECH/ADP/EPD&C							NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYST MDAC II ITEM:				1676	00 MH2 CLOCK											-	•	-	
LEAD AN	ALY	ST	<b>:</b>	A.D.	MO	NT	'GOM	ERY	•										
ASSESSM	ENT	:																	
		F	ICAL LIGH W/FU			R A		NDA	N	CY B	SCR	EEN	s c			II. TE	_		
NASA										_			-						
IOA	[	3	/3 /1R	]	[	P	]	i	] [	F	]	[ [	P	]	[	х	]	*	
COMPARE	[		/N	]	[	N	]	1	[	N	]	[	N	]	ι	N	]		
RECOMMEN	IDA'I	CIC	ons:	(If	di	.f1	fere	nt	f	rc	m NA	ASA)	ı						
			/1R		[						]	•	P	]	(ADD)	/DI	] ELI	ETE	Ξ)
* CIL RE	TEN	TI	ON R	ATIONA	LE	:	(If	ap	q	li	cabl	e)							•
REMARKS:												IN	AD	EQUAT	E [		]		
LOSS OF OF REDUN	TRA DAN	ns T	DUCE HARD	R DATA WARE C	T ON	o SI	ADT/ DERI	AR ED	E R	ND: EA	ERS DILY	ADT DE	A TE	INEFF CTABL	ECTIVE.	Æ.		LO	SS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/AD 05-6EE-	P-1677		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1677 500 MH2	P/EPD&C			
LEAD ANALYST:	A.D. MC	NTGOMERY	Ĭ.		
ASSESSMENT:					OT!
CRITICAL		REDUNDA	ANCY SCREI	ENS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1	] R ]	[ ] [P]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	1	[и]	[ N ]	[ N ]	[и]
RECOMMENDATIONS	: (If	differen	t from NA	SA)	
[ 3 /1		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATION	ALE: (If	applicabl	.e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	ICER DATA	A TO ADTA	A RENDERS ED READIL	ADTA INEFFE Y DETECTABLE	CTIVE. LOSS

ASSESSM ASSESSM NASA FM	EN	T :	ID:	MEC	/26/88 ECH/ADP-1678 5-6EE-2014-1						NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST MDAC ID ITEM:		:		167	H/AI 8 NTEI		/EP[	)&C							-		•		
LEAD AN	AL	rsi	?:	A.D	. MC	rn(	'GOM	ERY											
ASSESSM	ENT	r:																	
	CF	F	LIGH	_		R	EDU	NDAN	ICY	SC	REEN	s				[L			
		HD	W/FU	NC		A			В			С			17	EM			
NASA IOA	]	3 3	/3 /1R	]	]	P	]	]	F	]	[	P	]		[	х j	<b>*</b>		
COMPARE	[		/N	]	[	N	]	[	N	]	[	N	]			N ]			
RECOMMEN	IDA	TI	ONS:	(I	f d	if:	fere	∍nt	fr	om N	iasa)	ı							
	[	3	/1R	]	[	P	]	[	P	]	[	P	]	(A	[ DD/	] DEL	ETI	Ξ)	
* CIL RE	TE	NT)	ON F	RATIO	NALI	2:	(If	apı	oli	.cab	le)			•	,			-,	
REMARKS: LOSS OF OF REDUN	TR <i>i</i>	ANS	DUCE	ER DA	ጥል ጥ	·^	λ tvm	13 Dr	71.75		IN	AD	EQUA EQUA INEF	TE	[ [ [VIT	] ]	LC	ss	
													- AMD	ه نالیه،					

ASSESSMENT DATE: ASSESSMENT ID:	MECH/AD	P-1679	BASELINE [ ]								
NASA FMEA #:	05-6EE-	2014-1		NEW	7 [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1679 COUNTER	P/EPD&C									
LEAD ANALYST:	A.D. MOI	ntgomery	?								
ASSESSMENT:											
CRITICAL FLIGH		REDUNDA	NCY SCRE	ens	CIL ITEM						
HDW/FU	NC	A	В	С							
NASA [ 3 /3 IOA [ 3 /1R	] [	p ]	[ ] [ F ]	[ ] [ P ]	[ x ] *						
COMPARE [ /N	] [	и ј	[ N ]	[ N ]	[и]						
RECOMMENDATIONS:	(If d	ifferent	from NAS	5 <b>A</b> )							
[ 3 /1R	] [	P ]	[ P ]		[ ] ADD/DELETE)						
* CIL RETENTION	RATIONALI	E: (If a	pplicable	≥)							
REMARKS:				ADEQUATE INADEQUATE	[ ]						
LOSS OF TRANSDUC	ER DATA	TO ADTA	RENDERS A	ADTA INEFFEC	TIVE. LOSS						
OF REDUNDANT HAR	DWARE CO	NSIDERED	READILY	DETECTABLE.							

ASSESSMENT DATASSESSMENT ID:	MECH/AD		NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	MECH/AD 1680 OR GATE	-										
LEAD ANALYST:	A.D. MO	NTGOMERY										
ASSESSMENT:												
	CALITY	REDUNDA	NCY SCRE	ens	CIL							
	GHT FUNC	A	В	С	ITEM							
NASA [ 3 /	/3 ] [ /1R ] [	] P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ x ]							
COMPARE [	ן מ' [	N ]	[и]	[ N ]	[ N ]							
RECOMMENDATION	NS: (If d	ifferent	from NA	SA)								
[ 3 ,	'1R ] [	P ]	[ P ]		[ ] ADD/DELETE)							
* CIL RETENTIO	ON RATIONAL	E: (If a	pplicabl	ADEQUATE	[ ]							
REMARKS: LOSS OF TRANSI												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADP 05-6EE-2	014-1	NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1681 OR GATE	/EPD&C									
LEAD ANALYST:	A.D. MON	TGOMERY									
ASSESSMENT:											
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM						
FLIGH HDW/FU		A	В	С							
NASA [ 3 /3 IOA [ 3 /1F	] [	p ]	[ ] [ <b>F</b> ]	[ ] [ P ]	* [ x ]						
COMPARE [ /N	] [	и ј	[ N ]	[ N ]	[и]						
RECOMMENDATIONS	: (If d	ifferen	t from NAS	SA)							
		P ]	[ P ]	[ P ]	[ ] DD/DELETE)						
* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]						
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS OF READILY	ADTA INEFFEC DETECTABLE.	CTIVE. LOSS						

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADP-1682	BASELINE	NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1682 SENSOR WINDOW GEN		•						
LEAD ANALYST:	A.D. MONTGOMERY								
ASSESSMENT:									
CRITICALI FLIGHT HDW/FUN		Y SCREENS B C	CIL ITEM						
NASA [ 3 /3 IOA [ 3 /1R	] [ ] [ ]	] [ ] F ] [ P ]	[ ] *						
COMPARE [ /N	_	и] [и]	[и]						
RECOMMENDATIONS:	(If different fr	com NASA)							
[ 3 /1R	, , , , ,		[ ] D/DELETE)						
* CIL RETENTION RA	ATIONALE: (If appl	icable) ADEQUATE	r ,						
REMARKS: LOSS OF TRANSDUCE! OF REDUNDANT HARDY	R DATA TO ADTA REN	INADEQUATE	• ,						

ASSESSMENT DATE: ASSESSMENT ID:		1602	NASA DATA: BASELINE [ ]								
	05-6EE-20		NI	EW [X]							
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1683 SENSOR WI	EPD&C NDOW GENERA	ATOR								
LEAD ANALYST:	A.D. MONT	GOMERY									
ASSESSMENT:											
CRITICAL FLIGH		EDUNDANCY :	SCREENS	CIL ITEM							
HDW/FU	NC A	В	С								
NASA [ 3 /3 IOA [ 3 /1R	] [ P	] [ F	] [ ] ] [ P ]	[							
COMPARE [ /N	] [ N	] [N]	] [ N ]	[ N ]							
RECOMMENDATIONS:	(If dif	ferent from	n NASA)								
[ 3 /1R	] [P	[ P ]		[ ] ADD/DELETE)							
* CIL RETENTION	RATIONALE:	(If applic	cable)								
REMARKS:			ADEQUATE INADEQUATE								
LOSS OF TRANSDUC											
OF REDUNDANT HAR	DWARE CONS	IDERED REAL	DILY DETECTABLE	•							

ASSESSME ASSESSME NASA FME	NT II		MECH/	/26/88 ECH/ADP-1684 5-6EE-2014-1									SA DATA BASELINE NEW	[	x	]	
SUBSYSTE MDAC ID:			MECH/A 1684 BUFFEI	UFFER													
LEAD ANA	LYST:	:	A.D. 1	101	VTC	OME	RY										
ASSESSME	NT:																
	CRITI FI	CAL:				EDUN	DAI	NC		SCR	EENS				IL Pen	1	
	HDV	/FU	NC		A				В			С					
NASA IOA	[ 3 [ 3	/3 /1R	]	[	P	]		[	F	]	[ [	P	]	]	x	]	*
COMPARE	נ	/N	1	[	N	]		[	N	]	[	N	]	[	N	]	
RECOMMEN	DATIC	ons:	(If	đ	if	fere	nt	1	fro	om N	IASA)	)					
	[ 3	/1R	1	[	P	]		[	P	3	[	P		DD,	/DI	] ELF	ETE)
* CIL RE	TENT:	ION :	RATION	AL	E:	(If	<b>a</b>	p	<b>,1</b> :	icak			DEQUATE DEQUATE	[		]	
REMARKS: LOSS OF OF REDUN	TRANS													TI	VE.	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1685 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1685 BUFFER	/EPD&C			
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /11		p ]	[ ] [ F ]	[ ] [P]	[ x ] *
COMPARE [ /N	] [	и ј	[ א ]	[и]	[ N ]
RECOMMENDATIONS	: (If d	ifferent	from NAS	SA)	
[ 3 /1	R ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS A	ADTA INEFFEC	CTIVE. LOSS

ASSESSME ASSESSME NASA FME	ENT ID:	MECI	5/88 H/ADP-168 SEE-2014-	6 1	nasa d Basel	
SUBSYSTE MDAC ID:		1686	£			,
			PUT CONTR			
LEAD ANA	LYST:	A.D.	MONTGOM	ERY		
ASSESSME	NT:					
•	CRITICA FLIC		REDUI	NDANCY SCE	REENS	CIL
		UNC	A	В	С	ITEM
NASA IOA	[ 3 /3 [ 3 /1	R ]	[ ] [ P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ ] * [ X ]
COMPARE		]	[ N ]	[ N ]	[ N ]	[и]
RECOMMEND	DATIONS	: (I:	f differe	ent from N	ASA)	
	[ 3 /1	R]	[ P ]	[ P ]	[ P ]	[ ] (ADD/DELETE)
* CIL RET	ENTION	RATION	WALE: (If	applicab	le)	,
REMARKS:					ADEQUAT: INADEQUAT:	E į j
OF REDUND	ANT HAI	CER DAI RDWARE	'A TO ADT	A RENDERS ED READILY	ADTA INEFF	ECTIVE. LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADI 05-6EE-2	P-1687 2014-1		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADI 1687 OUTPUT				
LEAD ANALYST:	A.D. MOI	NTGOMER!	¥		
ASSESSMENT:					
CRITICAL		REDUND	ANCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ]	[ N ]	[и]	[ וו
RECOMMENDATIONS:	(If d	ifferen	t from NAS	SA)	
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* CIL RETENTION	RATIONAL	E: (If	applicable	adequate	[ ]
REMARKS: LOSS OF TRANSDUC OF REDUNDANT HAD	CER DATA RDWARE CO	TO ADTA	RENDERS A	ADTA INEFFEC	CTIVE. LOSS

ASSESSMENT ID: MECH/ADP-1688 NASA FMEA #: 05-6EE-2014-1									ì	IASA DA' BASELII NI		x ]	
SUBSYSTI MDAC ID: ITEM:			MECH 1688 ENCO		/EPD&	кС							
LEAD ANA	LYSI	?:	A.D.	MON	TGOME	ERY							
ASSESSME	ENT:												
	F	CAL	T	:	REDUN	IDAN	CY	SCF	REENS		CII	_	
	HE	W/FU	NC	•	A		В		C	!			
NASA IOA	[ 3	/3 /1R	]	[	] P ]	]	F	]	[ [ P	]	[ 3	]	*
COMPARE	(	/N	]	[ ]	<b>4</b> ]	[	N	]	[ N	1	[ ]	ı j	
RECOMMEN	DATI	ons:	(I:	f di:	ffere	nt	fro	om N	IASA)				
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* CIL RE	TENT	ION I	RATIO	VALE:	(If	ap	pli	cab	le)				
REMARKS:									INA	DEQUATE DEQUATE	į	]	
LOSS OF OF REDUN	TRAN DANT	SDUCI HARI	ER DAT DWARE	CONS	ADT.	ARI EDI	eni Re <i>a</i>	ERS DIL	ADTA Y DET	INEFFE ECTABLE	CTIVE	•	LOSS

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1689 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1689 ENCODER	/EPD&C			
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	) [	N ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If d	ifferent	t from NAS	SA)	
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* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA NSIDERE	RENDERS D READILY	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

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SUBSYSTI MDAC ID: ITEM:				MECH, 1690 AMP	/AC	P/	'EPD	&C												
LEAD ANA	ALY	ST	:	A.D.	MO	NT	GOM:	ERY	•											
ASSESSME	ENT	:																		
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	I		W/FUI			A				В			C			II	EM	ſ		
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COMPARE	[		/N	]	[	N	]		[	N	3	[	N	]		[	N	]		
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	[	3	/1R	]	[	P	]		]	P	]	[	P	]	(AD	[ D/	DE	] LE	TE)	
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REMARKS: LOSS OF 'OF REDUN	ľRA	NS	DUCE	R DATE	\ m	'n	ያ ሆሙ	λ T:	· -	ar n	PDG 1	IN	AE	EQUAT: EQUAT: INEFF	E	[ [ IVI	€.	] ]	Loss	
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SUBSYSTEM MDAC ID:	<b>!:</b>				1	DP,	/E	PD&	C						-						
LEAD ANAI	LYS	T:		A.I	). M	ON	TG	OMI	ERY	•											
ASSESSMEN	T:	;																			
(	RE	וטם:	ADA	NC	CY	SC	REE	NS	3				L LEM	1							
	CRITICALITY FLIGHT HDW/FUNC						A				В				С						
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COMPARE	[		/N	]		[	N	]		[	N	]		ĺ	N	]		[	N	]	
RECOMMEN	DA'	TIC	ons:		(If	di	lf:	fer	en	t	fr	om	NAS	SA	)						
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* CIL RE	TE	NT	ION	RAT	NOI	ΑL	E:	(1	f	ap	pl	ica	abl				UATE UATE			]	
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SUBSYST MDAC ID ITEM:		:			1	ECH/ 692 PU	'AI	P/	EP)	D&C												-	
LEAD AN	AL	YS	T	:	A	.D.	MO	NT	'GO]	MER	Y												
ASSESSM	EN'	T:																					
	C			ICAL LIGH		Y		R	EDU	JNDA	AN-	CY	S	CREI	EΝ	s					IL		
		H	D	W/FU	NC			A				В				C				T	TE:	M	
NASA IOA		[	3 3	/3 /1R	]		[	P	]		]	F	]		[	P	]			[	X	]	*
COMPARE	{	[		/N	]		[	N	]		[	N	]		[	N	]			[	N	]	
RECOMMEN	ID.	AT:	IC	ons:		(If	d:	if	fer	ent	: 1	fro	m	NAS	A)	}							
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REMARKS:																AD		ľAU	E			]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP- 05-6EE-20	1693 14 <b>-</b> 1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1693 CPU	EPD&C			
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICAL		REDUNDAN	ICY SCREE	NS	CIL
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1	] [	] [ P ] [	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] []	и ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS	(If di	fferent	from NAS	SA)	
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* CIL RETENTION	RATIONALE	: (If a	pplicable	ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA I RDWARE CON	O ADTA	RENDERS A	ADTA INEFFEC DETECTABLE.	TIVE. LOSS

ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1694 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&												ì	NASA Basi	DAT ELIN NE	<b>E</b> [	x	] : ]		
SUBSYST MDAC ID ITEM:		:		MECH 1694 SELE													-		
LEAD AN	AL:	rsı	1:	A.D.	MO	NT	GON	ŒRY											
ASSESSM	EN'	r:																	
	CI	F	ICAL LIGH	T				NDAN	CY	S	CREEN	S				I L CEI	ч		
		HD	W/FU	NC		A			В	}		C					•		
NASA IOA		3	/3 /1R	]	[	P	]	]	F	]	]	P	]		[	x	]	*	
COMPARE	[		/N	1	ĺ	N	]	[	N	]	[	N	]			N			
RECOMMEN	IDA	TI	ons:	(II	f di	.fi	fer	ent	fr	om	NASA	)							
	[	3	/1R	]	[	P	]	[	P	]	(	P	]	(A	[ .DD/	DE	] LE	TE)	
* CIL RE	TE	NT:	ION 1	RATION	IALE	:	(I:	f ap	<b>21</b> :	ica	able)								
REMARKS: LOSS OF	TR	ANS	SDUCI	ER DAT	יים גלי	0	A DVI	וכו גלי	2377	<b>\</b> E\	II	VAC	DEQUA DEQUA	ATE	[ [ TIV	E.	]	Loss	•
OF REDUN	DA)	N'I'	HARI	DWARE	CON	SI	DEF	RED I	(E	/D]	LTA DE	ETE	CTAI	BLE.			•		,

ASSESSI	ASSESSMENT DATE: 1/26/88 ASSESSMENT ID: MECH/ADP-1695 NASA FMEA #: 05-6EE-2014-1 SUBSYSTEM: MECH/ADP/EPD&C													ASA DATA BASELINI NEV	] 2		]	
SUBSYST MDAC II ITEM:				MECH/ 1695 SELEC		•												
LEAD A	<b>IAL</b> Y	ST	:	A.D.	MON	T	SOME	RY										
ASSESSI	1ENT	<b>:</b>																
	CR		ICAL:	ITY		RI	EDUN	DAN	C	Y	SCF	REENS	3			IL PEN	•	
		_		NC		A				В			С		1	r et	1	
NAS!	) <i>(</i>	3	/3 /1R	]	[	P	]	[		F	]	[ [	P	]	[ [	x	]	*
COMPARI	E (		/N	]	[	N	]	(		N	]	[	N	]	[	N	]	
RECOMME	ENDA	TI	ons:	(If	di	fi	fere	nt	f	rc	om N	iasa)	)					
	[	3	/1R	]	[	P	]	(		P	]		P		DD,	/DI	] ELF	ETE)
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REMARKS LOSS OF	-	AN	SDUCI	ER DAT	'A T	'O	ADT	A R	E	NE	ERS	S ADT	ľA.	INEFFEC	TI	/E .	•	LOSS
														ECTABLE.				

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:				NASA DATA BASELINE NEW	
	MECH/ADP 1696 READ ONL	•	КĀ		
LEAD ANALYST:	A.D. MON	TGOMERY	ľ		
ASSESSMENT:					
CRITICAL FLIGH HDW/FU	r	REDUNDA A	ANCY SCRE	ENS C	CIL ITEM
NASA [ 3 /3 IOA [ 3 /1R	] [	P ]	[ ] [ <b>F</b> ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ]	[ N ]	[ N ]	[ N ]
RECOMMENDATIONS:	(If di	fferent	from NA	SA)	
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* CIL RETENTION REMARKS:	RATIONALE	: (If a	applicable	e) ADEQUATE INADEQUATE	• •
LOSS OF TRANSDUC OF REDUNDANT HAR					

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/26/88 MECH/ADP 05-6EE-2	-1697 014-1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP 1697 ROM	/EPD&C			
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ns	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /3 IOA [ 3 /1F	] [	P ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE [ /N	] [	и ј	[ N ]	[и]	[и]
RECOMMENDATIONS	(If d	ifferent	t from NAS	SA)	
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* CIL RETENTION	RATIONAL	E: (If	applicable	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF TRANSDU OF REDUNDANT HA	CER DATA RDWARE CO	TO ADTA	RENDERS D READILY	ADTA INEFFEC	CTIVE. LOSS

ASSESSM NASA FM	ENT	I	D:	MECH	/AI	P-	·169	8					N	IASA DA' BASELII NI			] ]	
SUBSYST MDAC ID ITEM:				MECH 1698 READ					R	Y								
LEAD AND	ALY	ST	:	A.D.	MO	NT	GOM	ERY	•									
ASSESSMI	ENT	:																
		F	LIGH			R	EDU	NDA	N	CY	SCR	REEN	s			[L		
	F	HDV	/FU	NC		A				В			С		1.1	CEM		
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REMARKS:												IN	Αſ	EQUATE EQUATE	Ĩ	]		
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ASSESSMEN' ASSESSMEN' NASA FMEA	r ID:	1/26/88 MECH/ADF 05-6EE-2	9-1699 8014-1		BASELINE NEW	
SUBSYSTEM MDAC ID: ITEM:	:	MECH/ADE 1699 READ/WRI	P/EPD&C	RΥ		
LEAD ANAL	YST:	A.D. MON	ITGOMERY			
ASSESSMEN	T:					
С	RITICAL		REDUNDA	NCY SCREI	ens	CIL ITEM
	FLIGHT HDW/FU	_	A	В	С	
NASA IOA	[ 3 /3 [ 3 /1R	] [	p ]	[ ] [ F ]	[ ] [ P ]	[ x ] *
COMPARE	[ /N	] [	N ]	[ א ]	[и]	[и]
RECOMMEND	ATIONS:	(If d	ifferent	from NA	SA)	
	[ 3 /1R	] [	Р ]	[ P ]		[ ] .DD/DELETE)
* CIL RET	TENTION	RATIONAL	E: (If a	pplicabl	e) ADEQUATE INADEQUATE	
REMARKS: LOSS OF TO	TRANSDUC DANT HAR	ER DATA	TO ADTA NSIDERED	RENDERS READILY	ADTA INEFFEC DETECTABLE.	CTIVE. LOSS

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SUBSYSTI MDAC ID: ITEM:				10	ECH/ 501 VITCI		-		С											
LEAD AND	ALY	ST	:	A.	.D. 1	MO	NT	GOME	RY											
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		F	ICAL LIGH W/FU	r	_		RI A	EDUN	DAI	ICY B		SCRE	EN				CI	L EN		
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NASA IOA	[	3	/1R /1R	]		[	P P	]	[	F	, :	]	[	P P	]		[	x	]	*
COMPARE	[		/	]		[		]	(	N		]	[		]		[	N	]	
RECOMMEN	IDA:	ri	ons:		(If	d:	ifí	fere	nt	fr	or	n NAS	SA)	)						
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* CIL RE	TE	NT:	ION I	RAT	IONA	L	Ξ:	(If	ap	pl	ic	cable	<b>=</b> )	λг	EQUAT	יסוי	r		,	
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**REMARKS:** 

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/22/88 MECH/ADP-1 05-6EE-201	1603 15 <b>-</b> 1		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/ 1603 LATCH REL				
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT: CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 3 /1F IOA [ 3 /1F		P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ]
COMPARE [ /	] [	]	[ N ]	[ ]	[ N ]
RECOMMENDATIONS	: (If di	fferent	from NAS	SA)	
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* CIL RETENTION	RATIONALE	e: (If a	applicabl	e) ADEQUATE INADEQUATE	

ASSESSM ASSESSM NASA FM	1/2: MECI 05-0	2/88 H/AI 5EE-	3 OP-	-160 015-	00		NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYST MDAC ID ITEM:	EM:			MECH 1600 SWIT	)								[	<b></b> ,
LEAD AN	ALY	SI	<b>!:</b>											
ASSESSMI	ENT	:												
		F	LIGH			R	EDU	NDAN	CY	S	CREENS		CII	
	I	HD	W/FU	NC		A			В		c	<b>!</b>	ITH	<b>EM</b>
NASA IOA	[	3	/1R /3	]	[	P	]	]	F	]	[ P	]	[ }	( ] *
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REMARKS:											AI INAI	EQUATE EQUATE	í	]
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/ADP-1595	NASA DATA: BASELINE NEW									
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EPD&C 1595 REMOTE POWER CONT										
LEAD ANALYST:	A.D. MONTGOMERY										
ASSESSMENT:											
CRITICAL FLIGH	<del></del>	CY SCREENS	CIL ITEM								
HDW/FU		в с									
NASA [ 3 /1R IOA [ 3 /1R	[ P ] [ E ] [ P ] [	P ] [ P ] F ] [ P ]	[ x ] *								
COMPARE [ /	] [ ] [	N ] [ ]	[ N ]								
RECOMMENDATIONS:	(If different	from NASA)									
[ 3 /1F	[P] [	F ] [ P ] (A	[ A ] DD/DELETE)								
* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE									
REMARKS: LOSS OF REDUNDANDURING FLIGHT, T	IT HARDWARE DETERMI THEREFORE DOES NOT	INED TO BE NOT READ PASS SCREEN B.	ILY APPARENT								

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	1/21/88 MECH/ADF 05-6EE-2	9-1597 2016-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:		POWER CON	TROLLER		
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
CRITICA		REDUNDAN	ICY SCREE	ns	CIL ITEM
FLIG HDW/F		A	В	С	
NASA [ 3 /1 IOA [ 3 /1	R ] [ R ] [	P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ x ] *
COMPARE [ /	] [	]	[и]	[ ]	[ N ]
RECOMMENDATIONS	: (If d	different	from NA	SA)	
[ 3 /1		[ P ]	[ F ]	[ P ]	[ A ] ADD/DELETE)
* CIL RETENTION	N RATIONA	LE: (If a	pplicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: LOSS OF REDUND DURING FLIGHT,	ANT HARDW THEREFOR	ARE DETER	RMINED TO OT PASS S	BE NOT REA SCREEN B.	DILY APPARENT

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SUBSYST MDAC ID ITEM:	EM:	3			MECH, 1599 REMO					TR	OL	LER						-	-	
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	1/21/88 MECH/ADP-15 05-6EE-2016		N	NASA DATA: BASELINE NEW		; ] ; ]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADP/EI 1594 REMOTE POWI		LLER				
LEAD ANALYST:	A.D. MONTGO	OMERY					
ASSESSMENT:							
CRITICAL FLIGH		DUNDANCY	SCREENS		CII		
HDW/FU		В	(	C			
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* CIL RETENTION	RATIONALE:	(If appl:	į	ADEQUATE	<u></u>	]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:					NASA DATA: BASELINE [ ] NEW [ X ]						
SUBSYSTEM: MDAC ID: ITEM:	MECH/ADF 1596 REMOTE F		ONTRO	LLER							
LEAD ANALYST:	A.D. MON	TGOMER	ľ								
ASSESSMENT:											
CRITICAL FLIGH HDW/FU	T	REDUNDA	ANCY S	SCREEN		CIL ITEM					
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SUBSYSTEM MDAC ID:	:	MECH/AI 1598 REMOTE		CONTRO	LLER			
LEAD ANAL	YST:	A.D. M	ONTGOMI	ERY				
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SUBSYST MDAC ID ITEM:	'EM :			MECH, 1593 SOLII					ER									
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* CIL RE	TEN	T]	ON F	RATION	ALE	€:	(Ii	f app	li	ca	ble)							
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ASSESSMEN	SSESSMENT DATE: 1/18/88 SSESSMENT ID: MECH/ADP-1588 ASA FMEA #: 05-6EE-2017-2 UBSYSTEM: MECH/ADP/EPD&C													]		SA DAT ASELIN NE				]	
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SUBSYSTE MDAC ID:	M:		MECH/ 1590 TIME		•		iC									
LEAD ANA	Lyst:		A.D.	MO	NT	GOME	ERY									
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/SDM-9	500A 3-2	NASA DATA: BASELINE NEW		]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/SDM/E 9500 CIRCUIT BR		тсн			
LEAD ANALYST:	H.J. LOWER	RY				
ASSESSMENT:						
CRITICAL	CIL	I				
FLIGH HDW/FU		F	3	С		
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RECOMMENDATIONS:	(If dif	ferent fi	rom NASA	)		
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SUBSYST MDAC ID ITEM:			MECH/ 16515 FUSE,	5											
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* CIL RE REMARKS: IOA AGRE					: (	If a	.pp]	licab			QUATE QUATE	[	x	]	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR-65 05-6EG-2010	507 )-1	NASA DATA: BASELINE NEW	[ x ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR/E1 6507 RADIATOR CO	PD&C ONTROL SWITCH (	S5/S7)									
LEAD ANALYST:	W.T. SLAUG	HTER										
ASSESSMENT:												
CRITICAL	IS	CIL										
	FLIGHT HDW/FUNC A B C											
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COMPARE [ N /N			[и]	[ N ]								
RECOMMENDATIONS	(If diff	erent from NAS	A)									
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* CIL RETENTION	RATIONALE:	(If applicable	ADEQUATE	[ x ]								
REMARKS: IOA AGREES WITH 6509, 6510.	THE FMEA/C	IL. ALSO SEE F	RELATED MDAC	: ID's 6508,								

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LEAD ANA	ALYS	T:	W.T.	SLAU	GHT:	ER			
ASSESSME	ENT:								
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SUBSYSTEM: MDAC ID: ITEM:	MECH/PBF 6509 RADIATOR		L SWITCH	(S5/S7)	
LEAD ANALYST:	W.T. SL	AUGHTER			
ASSESSMENT:					_
CRITICAL		REDUNDA	NCY SCRE	ens	CIL ITEM
FLIGH HDW/FU		A	В	C	
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REMARKS: IOA AGREES WITH 6508, 6510.	THE FME.	A/CIL.	ALSO SEE	RELATED MDA	C ID's 6507,

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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/19/88 MECH/PBR-65 05-6EG-2010	09	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/PBR/EP 6509 RADIATOR CO	D&C NTROL SWITCH (S	55/S7)	
LEAD ANALYST:	W.T. SLAUGH	TER		
ASSESSMENT:				
CRITICAL FLIGH		OUNDANCY SCREENS	5	CIL ITEM
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COMPARE [ N /	] [ ]	[ ] [	1	[ N ]
RECOMMENDATIONS:	(If diffe	erent from NASA	)	
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REMARKS: IOA AGREES WITH	THE FMEA/CII	L. SEE RELATED	MDAC ID 6	510.

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SUBSYSTEM: MDAC ID: ITEM:	6510	BR/EPD&	C ROL SWITC	H (S5/S7)	
LEAD ANALYST:	W.T. SI	LAUGHTE	R		
ASSESSMENT:					
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SUBSYSTEM MDAC ID: ITEM:	:				165	CH/P 516 D MC			2,	3,	, 4	1											
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ASSESSMEN	T:																						
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COMPARE	[		/								[									[	N	]	
RECOMMEN	DA'	ΓI	ONS	<b>:</b>		(If	đ	if	fer	ent	f	r	om	NAS	A)	)							
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REMARKS: IOA AGRE	ES	W	ITI	H	THI	E FM	EΑ	./C	IL.														

REPORT DATE 03/07/88 C-887

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD- 05-6EH-56	4517 000-1	NASA DATA BASELINI NEV	A: E [ ] W [ X ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4517 +28V CONT	EPD&C ACT #1		•
LEAD ANALYST:	A.D. MONTO	GOMERY		
ASSESSMENT:				
CRITICAL] FLIGHT	TY RI	EDUNDANCY S	CREENS	CIL
HDW/FUN	IC A	В	С	ITEM
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] [ P	] [ P ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N			[ ]	[ ]
RECOMMENDATIONS:	(If diff	erent from	NASA)	
				[ ] DD/DELETE)
* CIL RETENTION R	ATIONALE:	(If application	able)	
REMARKS:			ADEQUATE INADEQUATE	[ ]
SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH FA PASSING ALL SCREEN	ILURE CONS			

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4	NEW 05-6EH-56000-1							
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4519 +28V CONTA								
LEAD ANALYST:	A.D. MONTO	OMERY							
ASSESSMENT:									
CRITICAL		EDUNDANC	Y SCREEN	S	CIL ITEM				
FLIGH HDW/FU			В	С					
NASA [ 2 /1F IOA [ 3 /2F	[ P	] [ ] [	P ] [	P ] P ]	[ X ] *				
COMPARE [ N /N				1	[ ]				
RECOMMENDATIONS	(If dif	ferent :	from NAS	A)					
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* CIL RETENTION	RATIONALE:	(If ap		) ADEQUATE INADEQUATE					
REMARKS: SINGLE FAILURE VEHICLE/MISSION CONTROL SWTICH	OF SWITCH F . SECOND F FAILURE COM	OLE/CON AILURE ISIDERED	TACT SET COULD CA READILY	WOULD NOT USE LOSS OF APPARENT	CAUSE LOSS OF DEPLOY/STOW DURING FLIGHT,				

PASSING ALL SCREENS.

ASSESSMEN ASSESSMEN NASA FMEA	T [ T ] *:	DATE:	2/04, MECH, 05-61	/88 /KE EH-	BD- -56	452: 000-	l -1				Ŋ	iasa Base	DATA LINE NEW	] 3	x	]		
SUBSYSTEM MDAC ID: ITEM:	:		MECH/ 4521 +28V	CO	D/ NT	EPD&	kC #3											
LEAD ANALY	YST	<b>:</b>	A.D.	MO	NT	GOME	ERY											
ASSESSMENT	r:																	
CI	RIT F	ICAL:	ITY T		R	EDUN	DAN	CY	SC	REE	NS			CI				
			1C		A			В			С			IJ	EM	1		
NASA [ IOA [	2	/1R /2R	]	[	P P	]	[	P F	]		[ P	]		[	X X	] :	*	
COMPARE [	N	/N	J			]			]		[	]						
RECOMMENDA	TIC	ONS:	(If	di	lff	ere	nt f	rc	om 1	NASA	١)							
			J									]	(AI	[ DD/		] LET	E)	
* CIL RETE	NTI	ON R	ATION	ALE	:	(If	app	li	cab	ole)								
REMARKS:											NAC	EQUA EQUA	TE	Ĩ		] ]		
SINGLE FAIR VEHICLE/MIS CONTROL. S FLIGHT, PAS	IWE	TCH :	FAILUE	EΕ	CO	NSTE	CONT RE C DERE	AC OU D	T S LD REA	ET CAU DIL	WOU SE Y A	LD N LOSS PPAR	OT C OF ENT	AUS DEI DUI	SE PLO RIN	LO YG	SS 01 STOW	E

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD- 05-6EH-56	-4523 5000 <b>-</b> 1			NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/ 4523 +28V CONT					
LEAD ANALYST:	A.D. MONT	rgomery				
ASSESSMENT:						CTI
CRITICAL		REDUNDA	NCY	SCREE	NS	CIL ITEM
FLIGH HDW/FU		A	В		С	
NASA [ 2 /1F IOA [ 3 /2F	R ] [	P ] P ]	[ P [ F	]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	]	[ N	3	[ ]	[ ]
RECOMMENDATIONS	: (If di	fferen	t fr	om NAS	A)	
[ 3 /1	R] [	P ]	[ P	1	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONALI	E: (If	appl	icable	e) ADEQUATE INADEQUATE	[ ]
REMARKS:	on cutmen	POTE/C	ОМТА	CT SET	TOM DUUOW	CAUSE LOSS OF

SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSM ASSESSM NASA FM	SESSMENT DATE: 2/04/88 SESSMENT ID: MECH/KBD-4525 SA FMEA #: 05-6EH-56000-1								NASA DATA: BASELINE [ ] NEW [ X ]												
SUBSYST MDAC ID ITEM:	EM:	:		4	ÆCH, 1525 -28V												•		J		
LEAD AN	ALY	SI	?:	A	.D.	MO	ΙΝΊ	'GOM	ERY												
ASSESSM	ENT	<b>':</b>																			
	CR	IT F	'ICAI 'LIGH	LIT IT	Y		R	EDU	NDAN	CY	s	CREE	ENS	3			CI	-			
	•		W/Ft				A			В				С			II	EM	ĺ		
NASA IOA	[	2 3	/1F /2F	? ] ? ]		[	P P	]	]	P F	]		]	P P	]		[	X X	]	*	
COMPARE			/N			[		]					[						_		
RECOMMEN	DA'	CIC	ons:		(If	đi	ifi	fere	ent :	fro	om	NAS.	A)								
			/1R											P		(AD	[ D/1		] Le'	TE.	)
* CIL RE	TEN	T]	ON 1	RAI	ION	ALE	:	(If	app	li	.ca	ble	)								
REMARKS:												]	LNZ	AD.	EQUATE EQUATE	;	[	]			
SINGLE FOR VEHICLE/II CONTROL S PASSING A	SWT	IC	H FA	ATT.	IIRE	CO CO	PO FA NS	LE/ ILU IDE	CONT RE C RED	AC OU RE	T S LD AD]	SET CAU	WC ISE AE	OU: PPA	LD NOT LOSS O ARENT	C. F.	AUS DEF RIN	E LC	L( Y/ F]	oss 'sı	OF OW HT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4	MECH/RBD-4527 05-6EH-56000-1 NEW							
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4527 +28V CONTA								
LEAD ANALYST:	A.D. MONTO	OMERY							
ASSESSMENT:									
CRITICAL		EDUNDANC	Y SCREEN	S	CIL ITEM				
FLIGH HDW/FU			В	С					
NASA [ 2 /1F IOA [ 3 /2F	[ P	] [	P ] [ F ] [	P ] P ]	[ X ] *				
COMPARE [ N /N		] [	и] (	]	[ ]				
RECOMMENDATIONS	(If dif	ferent :	from NAS	A)					
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* CIL RETENTION	RATIONALE	(If ap		) ADEQUATE INADEQUATE	[ ]				
REMARKS: SINGLE FAILURE VEHICLE/MISSION CONTROL SWTICH	OF SWITCH I	POLE/CON FAILURE NSIDERED	TACT SET COULD CA READILY	WOULD NOT USE LOSS OF APPARENT F	CAUSE LOSS OF DEPLOY/STOW DURING FLIGHT,				

PASSING ALL SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KB 05-6EH-	D-4529 56000-1		NASA DATA BASELINI NEV	A: E [ ] V [ X ]
	MECH/KB 4529 +28V COI				•
LEAD ANALYST:					
ASSESSMENT:					
CRITICALI FLIGHT	TY	REDUNDAN	CY SCRE	EENS	CIL
	C		В	С	ITEM
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COMPARE [ N /N			<b>м</b> ј		[ ]
RECOMMENDATIONS:	(If di	fferent 1	from NA	SA)	
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* CIL RETENTION RA	ATIONALE	: (If app	licable	≘)	
REMARKS:				ADEQUATE INADEQUATE	[ ]
SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH FAI PASSING ALL SCREEN	LURE COM	POLE/CONT FAILURE C ISIDERED	ACT SET OULD CA READILY	WOULD NOT C USE LOSS OF APPARENT DU	AUSE LOSS OF DEPLOY/STOW RING FLIGHT,

ASSESSMEN ASSESSMEN NASA FMEA	T	ID	:	ME	04/8 CH/K -6EH	טם.	-4! 60	531 00-1	L						SA DATA SELINI NEV				) ]		
SUBSYSTEM MDAC ID:		•		45	CH/K 31 8V C																
LEAD ANA	LYS	T:		A.	D. M	ION	TG	OME	RY												
ASSESSME	T.															_		_			
(	CRI		CAL		Ž.		RE	DUN	DAN	CY	S	CREEN	S				T	L EM			
	F		LIGH N/FU				A			В			(	С							
NASA IOA	[	2	/1F /2F	2 ]		[	P P	]	[	P	]	(		P P	]	1	[	X X	]	*	
COMPARE	[	N	/N	]		[		]	[	N	1	1	•		]		(		]		
RECOMMEN	DA'	TI	ons	:	(If	d	if	fere	ent	fı	om	NAS	A)								
ADOIL -						(	P	]	[	1	? ]		(	P	]	(AD	[ D/	/ DI	ETI ETI	ETE)	)
* CIL RI	ETE	IN	NOI	R.F	TION	IAL	E:	(I:	f ap	g	lic				DEQUAT DEQUAT		[		]		
REMARKS SINGLE VEHICLE CONTROL	: FAI /MI	LU [SS	JRE SION ICH	OF •	SWIT SECO	CH ONI	I F	OLE AIL ISID	/COI URE EREI	VT. C	ACT OUI RE	r SET LD CA ADILY	US	NO SE AP	ULD NO LOSS PARENT	OF OF	A D JR	US EP IN	E LO G	LOS Y/S FLI	S OF TOW GHT,

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ASSESSM	ENT	<b>!</b> :																			
	CR		ICAI LIGH				R	EDU	NDAN	CY	S	CREI	EN:	s				ΙL			
			W/FU				A			В				С			ľ	PEN	4		
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RECOMME	NDA!	TI	ons:		(If	d:	ifi	fere	ent :	fro	om	NAS	A)								
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* CIL RI	ETE	T	ION 1	RAT	ION	ALE	:	(If	app	oli	ca	ble									
REMARKS:	:												IN	AD	EQUAT:	E					
SINGLE H VEHICLE/ CONTROL PASSING	SWI	CIC	H FA	LTT	IRE	CO CO	PO FA NS	LE/ ILU IDE	CONT RE C RED	'AC OU RE	T LD AD	SET CAU	W US A	OU E PP	LD NOT LOSS ( ARENT	r cz OF I DUI	AU: DE: RII	SE PLO NG	LA OY,	OSS /ST( LIG)	OF OW HT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4 05-6EH-560	535 00 <b>-</b> 1			NASA DATA: BASELINE NEW	[ x ]	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/F 4535 +28V CONTA	ACT #2					
LEAD ANALYST:	A.D. MONTO	OMERY					
ASSESSMENT:							
CRITICAL		edundai	NCY	SCREE	NS	CIL ITEM	İ
FLIGH HDW/FU			В		С		
NASA [ 2 /1F IOA [ 3 /1F	[ P	]	[ P	]	[ P ] [ P ]	[ X	] <b>*</b>
COMPARE [ N /	] [	3	[ N	]	[ ]	[	]
RECOMMENDATIONS	: (If dif	ferent	fro	om NAS	SA)		
	R ] [ I	)	[ P	)	[ P ]	[ .DD/D]	] ELETE)
* CIL RETENTION	RATIONALE	(If a	appl	icable	e) ADEQUATE INADEQUATE		]
REMARKS: SINGLE FAILURE	OF SWITCH	POLE/C	ONTA	CT SE	T WOULD NOT	CAUS DEP	E LOSS OF

REMARKS: SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSM ASSESSM NASA FM	ENT ENT EA	r : r :	DATE [D:	: :	2/04 MECH 05-6	/8: /K: EH-	B BD- -56	-453 5000	7 -1					NASA BASI	ELIN	A: E [ W [	x	]		
SUBSYST MDAC ID ITEM:	em:	ř		4	IECH, 1537 -28V											•		,		
LEAD AN	ALY	ST	<b>:</b>	A	.D.	MC	rno	GOM	ERY											
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NASA IOA	]	2	/1R	]		[	P P	]	[	P F	]		[ ]	P ]		]	X X	] * ]	k	
COMPARE			/			[		]				İ						_		
RECOMMEN	DAT	ric	ons:		(If	<b>d</b> :	ifí	fere	nt i	fro	om 1	NAS!	<b>1</b> )							
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REMARKS:													NA	DEQUA DEQUA	TE	ĺ	]			
SINGLE FAVE VEHICLE/N CONTROL SPASSING A	AIL MIS WT ALL	UR SI IC S	E OF ON. H FA CREE	S S AIL ENS	WITO ECON URE	CO	PO FA NS	LE/OILUI	CONT RE C RED	AC OU RE	T S LD ADI	SET CAU Ly	WO SE AP	ULD N LOSS PAREN	OT C OF T DU	CAUS DEF URIN	E LO G	LO: Y/: FL:	SS 01 STOW IGHT,	F ,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD	-4539		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4539 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREEN	IS	CIL ITEM
FLIGH HDW/FU	T NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /1R		P ] P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /		1		[ ]	[ ]
RECOMMENDATIONS:	(If d	ifferent	t from NAS	A)	
		P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If a	applicable	) ADEQUATE INADEQUATE	
REMARKS: SINGLE FAILURE ( VEHICLE/MISSION CONTROL SWTICH PASSING ALL SCR	. SECONI FAILURE (	POLE/C FAILUR CONSIDER	ONTACT SET E COULD CA ED READILY	WOULD NOT LUSE LOSS OF APPARENT	CAUSE LOSS OF F DEPLOY/STOW DURING FLIGHT,

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		]	HD	W/F	UN	IC			A				В				С				. 111	•		
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COMPARE	}	[	N	/N		]		[	N	]		1	N	3		[	N	]		[		]		
RECOMME	ND	ľA	CIC	ONS	:		(If	d:	if	feı	cent	. 1	fro	m	NAS	A)	١							
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REMARKS																		EQUATE EQUATE		_		]		
SINGLE VEHICLE CONTROL PASSING	SV	VT	IC	Н	· ·A:	ILI	JRE																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4 05-6EH-566	4541 000-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4541 TALKBACK				
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICAL		EDUNDAN	CY SCRE	ENS	CIL ITEM
FLIGH HDW/FU			В	С	
NASA [ 2 /1F IOA [ 3 /3	? ] [ F	) [ ] [	P ]	[ P ] [ ]	[ X ] *
COMPARE [ N /N		4 ] [	[ и ]	[ и ]	[ ]
RECOMMENDATIONS	: (If di	fferent	from N	ASA)	
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* CIL RETENTION	RATIONALE	: (If a	pplicab	le) ADEQUATE INADEQUATE	[ ]
REMARKS: SINGLE FAILURE	OF SWITCH	POLE/CO	NTACT S	ET WOULD NOT	CAUSE LOSS OF DEPLOY/STOW

SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSM ASSESSM NASA FM SUBSYST MDAC ID ITEM:	ENI EA EM:	[ ] #:	ID:	MI 0! MI 4!	ECH/ 5-6E	KE H-	3D- -56 3D/							NASA BASI	DATA ELINE NEW	] :	x	]	
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ASSESSMI	ENT	:																	
		F	ICAL LIGH	T			R	EDUI	NDAN	CY	sc	CREE	NS			CI	L EM		
		HD	W/FU	NC			A			В			(	2			EM		
NASA IOA	[	2 3	/1R /3	]		]	P	]	[	P	]		[ ]	? ] ]		[	X j	<b>*</b>	
COMPARE	[	N	/N	]		]	N	]	[	N	]	l		1]			]		
RECOMMEN	DAT	ric	ONS:		(If	đi	ff	ere	nt f	rc	m	NASA	.)						
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REMARKS:												I	NA	DEQUA DEQUA	TE		] ]		
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ASSESSME ASSESSME NASA FME	NT I	D:	MECH	/KBD-4	1517	A 3					SA DA ASELI 1		[				
SUBSYSTE MDAC ID: ITEM:			4517	/KBD/													
LEAD ANA	LYST	<b>!:</b>	A.D.	MONT	GOME	ERY											
ASSESSME	NT:																
				R	EDUN	IDANC	Y	SC	REENS	;				L EM			
		LIGH W/FU		A			В			С							
NASA IOA	[ 2	2 /1R 3 /2R	]	[ P	]	[	P F	]	]	P P	]		[	X X	]	*	
COMPARE	[ ]	N / N	1	[	]	[	N	]	[		]		[		]		
RECOMMEN	IDAT]	cons:	(I	f dif	fere	ent i	fro	om	nasa)	)							
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REMARKS: SINGLE I VEHICLE,	73 T T T	URE C	F SWI	COND F	'AIL	URE (	CO	ULL	SET 1	WOU SE	LOSS	OT OF	CAI D	USE EPI	<b>.</b> (O.2	1/31	OW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD 05-6EH-5	-4519 <b>A</b> 6000-3		NASA DATA BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD, 4519 +28V CON					
LEAD ANALYST:	A.D. MON	TGOMERY				
ASSESSMENT:						
CRITICAL FLIGH	ITY 1	REDUNDANC	CY SCREEN	5	CIL	4
HDW/FU	NC 1	A	В	С	115	1
NASA [ 2 /1R IOA [ 3 /2R	] [1	P ] [	P ] [ F ] [	P ] P ]	[ X ]	] <b>*</b>
COMPARE [ N /N	] [	] [	N ] [	1	[	]
RECOMMENDATIONS:	(If di	fferent f	rom NASA	)		
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* CIL RETENTION	RATIONALE:	(If app	licable)			
			I	ADEQUATE IADEQUATE	[	]
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION.	SECOND F	'AILURE C	ACT SET WOLLD CAUS	OULD NOT C	AUSE	LOSS OF
CONTROL SWTICH F	AILURE CON	SIDERED	READILY A	PPARENT DU	RING	FLIGHT,

ASSESSMENT ASSESSMENT NASA FMEA #	ID:	MECH/KB	<b>U-4</b> 5	521A 00-3				•		SA DATA: ASELINE NEW	[			
SUBSYSTEM: MDAC ID: ITEM:		MECH/KB 4521 +28V CO				•	•							
LEAD ANALYS	ST:	A.D. MO	NTG	OMERY										
ASSESSMENT:	•													
CRI	ITICAL		RE	DUNDA	NC	Y	SCRE	ENS	3			IL PEN	1	
I	FLIGH HDW/FU		A			В			С					
NASA [ IOA [	2 /1F 3 /2F	t ] [	P P	]	[	P F	]	[	P P	]	[	X X	]	*
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* CIL RETE	NTION	RATIONA	LE:	(If a	ap	pl	icabl			DEQUATE DEQUATE	[		]	
REMARKS: SINGLE FAI VEHICLE/MI CONTROL.	SSION SWITC	OF SWITC . SECON H FAILUR	E C	ONSID	ON E ER	TA CO ED	CT SE ULD ( REAL	ET CAU DIL	WO SE Y	ULD NOT LOSS OF APPARENT	CA F E	US EP OUR	E LO IN	LOSS O Y/STOW G

FLIGHT, PASSING ALL SCREENS.

ASSESSMENT DAT ASSESSMENT ID: NASA FMEA #:	E: 2/04/88 MECH/KI 05-6EH-	3 3D-4523A -56000-3		NASA DATA BASELINE NEW	: [ ] [ x ]
SUBSYSTEM: MDAC ID: ITEM:	4523	BD/EPD&C ONTACT #4			
LEAD ANALYST:	A.D. MC	NTGOMERY			
ASSESSMENT:					
CRITIC: FLIC	LITY	REDUNDAL	NCY SCREI	ens	CIL
	TUNC	A	В	С	ITEM
NASA [ 2 /: IOA [ 3 /:	.R ] [ R ] [	P ]   P ]	[ P ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [	] (	N ]	[ ]	[ ]
RECOMMENDATIONS	: (If d	ifferent	from NAS	'A)	
[ 3 /1	R] [	P ] [	Pj	-	[ ] DD/DELETE)
* CIL RETENTION	RATIONAL	E: (If ap	plicable		
REMARKS:				ADEQUATE INADEQUATE	[ ]
SINGLE FAILURE VEHICLE/MISSION CONTROL SWTICH PASSING ALL SCR	FAILURE CO				

NASA DATA:

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBI	D-4525 <b>A</b> 56000 <b>-</b> 3		NASA DATA: BASELINE NEW	
	MECH/KBI 4525 +28V COI				
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:					
		REDUNDAN	NCY SCREEN	s	CIL ITEM
FLIGH HDW/FU		A	В	С	<b></b>
NASA [ 2 /1R IOA [ 3 /2R	] [	P ] P ]	[ P ] [ [ F ] [	P ] P ]	[ X ] *
COMPARE [ N /N	] [	]	[и]	1	[ ]
RECOMMENDATIONS:	(If d	ifferent	from NASA	.)	
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* CIL RETENTION	RATIONAL	E: (If a		ADEQUATE NADEQUATE	
REMARKS: SINGLE FAILURE O	F SWITCH	POLE/CO	NTACT SET	WOULD NOT	CAUSE LOSS OF

VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT,

NASA DATA:

ASSESSMENT DATE: 2/04/88

ASSESSMENT ID: NASA FMEA #:	MECH/KE 05-6EH-	D-4527A 56000-3		Baselin Ne	E [ ] W [ X ]
SUBSYSTEM:	MECH/KB				• •
MDAC ID: ITEM:	4527 +28V CO	NTACT #	2		
LEAD ANALYST:	A.D. MO	ntgomer	Y		
ASSESSMENT:					
		REDUND	ANCY SCRI	eens	CIL
FLIGH HDW/FU		A	В	С	ITEM
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COMPARE [ N /N	] [	1	[ N ]	[ ]	[ ]
RECOMMENDATIONS:	(If d	ifferen	t from NA	ASA)	
[ 3 /1F	: ] [	P ]	[ P ]	[ P ]	[ ] ADD/DELETE)
* CIL RETENTION	RATIONAL	E: (If	applicabl	-	_
DEWS DVC.				ADEQUATE INADEQUATE	
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH F PASSING ALL SCRE	SECOND AILURE C	FAILUR	E COULD C	CAUSE LOSS OF	F DEPLOY/STOW

ASSESSMEN' ASSESSMEN' NASA FMEA	r .	ID:	Œ:	- 177	/04/8 ECH/K 5-6EH	UU.	-45 600	529A 00-3		NASA DATA: BASELINE [ ] NEW [ X ]											
SUBSYSTEM MDAC ID:	:			4	ECH/F 529 28V (																
LEAD ANAI	χS	T:		P	.D. 1	MON	TG	OMER	Y												
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(	RI	TI	CAI	LI.	ΓY		RE	DUNI	ONAC	Y:	SC	REEN	3					EM	Ĺ		
	ī		JGI I/FI		С		A			В			С								
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RECOMMEN	ארם	TT:	ONS		(II	e d	if	fere	nt	fr	om	NASA	4)								
RECOMMEN			/1					1			)			P ]		(A	] DD.	)/D	EL.	ETE)	
* CIL RI	ETE	:NT	OI	1 1	RATIO	IAN	Œ:	(If	aŗ	p]	ic	able	) IN	ADI ADI	EQUA'	TE TE	[	• •	]		
REMARKS SINGLE VEHICLE, CONTROL	M) SV	IS: WT]	[CH	N. F	F SWI SEC AILUR	TCI ONI	H I D I CON	POLE, FAILU ISID	/COI JRE EREI	O I	ACT OUL REA	SET D CA DILY	W US	OUI E I	LD N LOSS AREN	OT OI	CA F I	AUS DEF RIN	E LO IG	LOS: Y/S' FLI	S OF TOW GHT,

ASSESSM ASSESSM NASA FM SUBSYST MDAC ID ITEM:	ENTEA EA EM:	r : *:	ID:	ME 45 +2	2/04/88 MECH/KBD-4531A 05-6EH-56000-3 MECH/KBD/EPD&C 4531 +28V CONTACT #4 A.D. MONTGOMERY									1	Vasa Basi	DAT. ELIN NE	E [	X	; ]	<b> </b>	
LEAD AN	ALY	SI	?:	A.	D.	MO	rn	'GOMI	ERY												
ASSESSMI	ENT	:																			
	CRITICALITY FLIGHT HDW/FUNC						R	EDUN	IDAN	CY B		CRE	EN					IL Pen			
MAGA										_				C							
NASA IOA	L	3	/1R /2R	]		[	P P	]	[	P F	]		]	P P	]		[	X X	]	*	
COMPARE	[	N	/N	]		[		]	[	N	]		ĺ		]		[		_		
RECOMMEN	DAI	ľIC	ons:	(	Ίf	di	fi	fere	nt i	fro	m	NAS	A)								
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* CIL RE	ren	TI	ON F	ITAS	ONA	LE	:	(If	apr	ıl i	cai	hla	١			\	,,,	Ji.	LE	TE)	
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REMARKS:			_										IN	AD:	<b>EQUA</b>	TE	r	:	]		
SINGLE FAVEHICLE/N CONTROL S PASSING A	IIS WT:	UR SI IC	E OF ON. H FA CREE	SW: SE( ILU) NS.	ITC CON RE	H I CON	PO PA IS	LE/C ILUR IDER	ONT E C ED	AC OU: RE	T S LD ADI	CAU LY	W US: A:	OU: E :	LD No Loss Aren'	OT C OF I DU	AUS DEI RIN	SE PLC IG	L( )Y, FI	OSS 'STO	OF OW HT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD	-4533A		NASA DATA: BASELINE NEW	
MDAC ID:	MECH/KBD 4533 +28V CON				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
		REDUNDAN	CY SCREEN	S	CIL
FLIGH HDW/FU	NC NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /1R	] [	P ] [	P ] [ F ] [	P ] P ]	[ X ] * [ X ]
COMPARE [ N /				1	[ ]
RECOMMENDATIONS:	(If di	fferent	from NASA	.)	
[ 3 /1F	: ] [	P ] [	P] [	P ] (A)	[ ] DD/DELETE)
* CIL RETENTION	RATIONALI	E: (If ap	oplicable) I	ADEQUATE	[ ]
REMARKS: SINGLE FAILURE ( VEHICLE/MISSION	SECOND	FAILURE	COOTD CW	DE DOSS OF	CAUSE LOSS OF DEPLOY/STOW URING FLIGHT,

CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT,

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD 05-6EH-5	0-4535A 56000-3	NASA DATA: BASELINE [ ] NEW [ X ]							
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4535 +28V CON									
LEAD ANALYST:	A.D. MON	TGOMERY								
ASSESSMENT:										
CRITICALI FLIGHT	TTY T	REDUNDANG	CY SCREE	ns	CIL ITEM					
HDW/FUN	1C	A	В	С						
NASA [ 2 /1R IOA [ 3 /1R	] [	P ] [ P ] [	P ] F ]	[ P ] [ P ]	[ X ] * [ X ]					
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RECOMMENDATIONS:	(If di	fferent f	from NAS	A)						
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* CIL RETENTION F	ATIONALE	: (If app	licable	)						
DEWADUG.			]	ADEQUATE NADEQUATE	[ ]					
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION. CONTROL SWTICH FA PASSING ALL SCREE	SECOND I	MAILURE C	ימים תוווחי	ICE INCC NE	DEDI AV Jamen					

ASSESSMEN ASSESSMEN NASA FMEA	T	ID	:	MECH	MECH/KBD-4537A 05-6EH-56000-3								ASEL		[		]		
SUBSYSTEM MDAC ID:				MECH 4537 +28V															
LEAD ANAI	LYS	T:		A.D.	MON	ľŢG	OME	RY											
ASSESSME	T.	:																	
	FLIGHT							DANC	REENS	3				[L CEM	I				
	F			NC		A			В			С							
NASA IOA	[	2	/1R /1R	]	[	P P	]	[ [	P F	]	[	P P	]		[	X X	]	*	
COMPARE	[	N	/	]	[		]	ĺ	N	]	[		]		[		]		
RECOMMEN	DA'	TI	ons:	. (	If d	if	fere	ent i	fr	om 1	NASA	)							
	[	3	/1F	? ]	[	P	]	[	P	]	[	P	]	(A		/D		ETE)	
* CIL RE	ETE	ľΥ	ION	RATI	ONAI	E:	(I	f ap	pl	ica			DEQU DEQU	ATE ATE	[		]		
REMARKS: SINGLE I VEHICLE	FAI	LU	RE (	OF SW	ITCH CONI	I P	OLE AIL	/CON URE ERED	TA CO	CT ULD	SET CAU	WO SE AP	ULD LOS PARE	NOT S OF	CA F E	US EP RIN	E LO G	LOSS Y/ST FLIG	OF OW HT,

CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT,

ASSESSMI ASSESSMI NASA FMI	ENT ENT EA	; ; ; ;	ATE:	2/0 MEC: 05-	4/88 H/KE 6EH-	3 3D- -56	453 000	9 <b>A</b> -3		NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTI MDAC ID: ITEM:	EM:			MEC 4539 +281	9											•		•		
LEAD ANA	LY	ST	:	A.D.	. MO	NT	GOMI	ERY												
ASSESSME	ENT	:																		
		F	LIGH	ITY T NC		R A		VDAN	CY B	sc	REE	NS	s c			CI				
NACA			•										_							
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RECOMMEN	DAT	ric	ons:	(I	f d:	ifí	ere	nt i	fro	om 1	NAS	A)								
	[	3	/1R	]	[	P	]	[	P	]	1	[	P	]	(AE	[ DD/	DE	] :LE	TE)	
* CIL RE	TEN	ITI	ON F	OITAS	NALE	::	(If	app	li	cak	ole)									
REMARKS:											1	N.	AD	EQUAT EQUAT	E			]		
SINGLE FACE CONTROL SPASSING A	WT	'IC	H FA	ILURI	rch Ond E co	PO FA NS	LE/0 ILUI IDEI	CONT RE C RED	AC OU RE	T S LD ADI	ET CAU LY	W(IS)	OU E PP.	LD NO LOSS ARENT	T C OF DU	AUS DEI RII	SE PL NG	L OY,	OSS C /STOW LIGHT	)F !

ASSESSMEI ASSESSMEI NASA FME	NT	ID		ME	04/88 CH/KI -6EH-	BD-	-4 60	540A 00-3	<b>L</b>					ASA BASE	ELII	NE	[	X	]		
SUBSYSTEM MDAC ID:	M:			454	CH/KI 40 LKBA(			PD&C	3												
LEAD ANA	LYS	ST:	:	<b>A.</b> !	D. MO	'MC	TG	OMEF	RY												
ASSESSME	NT:	:																			
CRITICALITY FLIGHT							RE	DUNI	ONAC	CY	sc	REEN	S				CI	L EM	[		
	1		IJGH.				A			В			С								
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COMPARE	[	N	/N	1		[	N	]	[	N	3	(	N	3			[		]		
RECOMMEN	IDA'	TI	ons:		(If	di	.ff	ere	nt :	fro	om	NASZ	<b>A)</b>								
	[	3	/1R	)		[	P	]	[	P	]	1	P	]		(A		/DE		TE)	
* CIL RE	ETE	NT	ION	RAT	IONA	.LF	E:	(If	ap	pl:	ica			DEQ DEQ	LAU LAU	E E	[		]		
REMARKS:	; 23 T	<b>T</b> TT	70 F A	T C	: <b>ພ</b> ፐጥር	u	D(	OLE/	CON	Τλ	СT									oss	

OF SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KB 05-6EH-	D-4541A 56000-3	NASA DATA: BASLINE [ ] NEW [ X ]								
	MECH/KB 4541 TALKBAC	•									
LEAD ANALYST:	A.D. MO	NTGOMERY									
ASSESSMENT:	NT:										
CRITICAL: FLIGHT	ITY	REDUNDAN	CY SCREE	ens	CIL						
	4C	A	В	С	ITEM						
NASA [ 2 /1R IOA [ 3 /3	] [	P ] [	P ]	[ P ] [ ]	[ X ] * [ X ]						
COMPARE [ N /N	] [	и][	n j	[и]	[ ]						
RECOMMENDATIONS:	(If di	ifferent	from NAS	A)							
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* CIL RETENTION F	RATIONALE	E: (If ap									
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ADEQUATE [ ] INADEQUATE [ ] REMARKS: SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL SWTICH FAILURE CONSIDERED READILY APPARENT DURING FLIGHT, PASSING ALL SCREENS.											

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD 05-6EH-5	-4542 <b>A</b> 66000-3	NASA DATA: BASELINE [ ] NEW [ X ]									
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4542 TALKBACI	K										
LEAD ANALYST:	A.D. MOI	NTGOMERY										
ASSESSMENT:			NCY SCREE	NS	CIL							
CRITICA	LITY	REDUNDA	NCI SCICLE		ITEM							
FLIGHT	HT TNC	A	В	С								
NASA [ 2 /1	R] [	P ]	[ P ] [ ]	[ P ] [ ]	[ X ] * [ X ]							
IOA [ 3 /3 COMPARE [ N /N		[ N ]	[и]	[ N ]	[ ]							
RECOMMENDATIONS	;: (If (	different	t from NAS	SA)								
[ 3 /		[ P ]	[ P ]	[ P ]	[ ] ADD/DELETE)							
* CIL RETENTIO				INADEQUATE	: [ ]							
REMARKS: SINGLE FAILURE VEHICLE/MISSIO CONTROL SWTICE PASSING ALL SO	FAILURE	CH POLE/C ND FAILUF CONSIDER	CONTACT SE RE COULD C RED READII	ET WOULD NOT CAUSE LOSS ( LY APPARENT	CAUSE LOSS OF DEPLOY/STOW DURING FLIGHT,							

MEA THEA #:	: 2/03/88 MECH/KBD-4516 05-6EH-56000-4	NASA DATA: BASELINE [ ] NEW [ X ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4516 +28V CONTACT #1	wan ( x )
LEAD ANALYST:	A.D. MONTGOMERY	
ASSESSMENT:		
CRITICAL: FLIGH HDW/FUI	T ADDONDANCY SCREENS	ITEM
NASA [ 2 /1R IOA [ 3 /1R	] [P] [P] [E]	[ X ] * [ X ]
COMPARE [ N /	] [ ] [ [ ] [	£ J
RECOMMENDATIONS:	(If different from NASA)	
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		DEQUATE [ ]
REMARKS: SINGLE FAILURE OF VEHICLE/MISSION. CONTROL. SWITCH F SCREENS.	INAI SWITCH POLE/CONTACT SET WOU SECOND FAILURE COULD CAUSE FAILURE CONSIDERED READILY A	DEQUATE [ ]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4518	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4518 +28V CONTACT #2		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL		JI DOMEDING	CIL ITEM
FLIGH HDW/FU	_	В С	
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COMPARE [ N /	] [ ] [	и] [ ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION	RATIONALE: (If app	plicable) ADEQUATE INADEQUATE	[ ]
**************************************	CECOND FAILURE	TACT SET WOULD NOT COULD CAUSE LOSS OF ED READILY APPARENT	CAUSE LOSS OF DEPLOY/STOW

SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4 05-6EH-560	4520 000-4	NASA DAT BASELIN NE	·
	MECH/KBD/E 4520 +28V CONTA			
LEAD ANALYST:	A.D. MONTG	SOMERY		
ASSESSMENT:				
CRITICAL: FLIGHT		EDUNDANCY	SCREENS	CIL ITEM
HDW/FU	NC A	В	С	
NASA [ 2 /1R IOA [ 3 /1R	] [ P ]	] [ P ]	] [ P ] ] [ P ]	[ X ] * [ X ]
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[ 3 /1R	] [ P	] [ P	] [P] (2	[ ] ADD/DELETE)
* CIL RETENTION F	RATIONALE:	(If applie	cable)	
REMARKS:			ADEQUATE INADEQUATE	
SINGLE FAILURE OF VEHICLE/MISSION. CONTROL. SWITCH SCREENS.	SECOND FA	ILURE COU	LD CAUSE LOSS OF	DEDIOV/STOW

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5	0-4522 66000-4			NASA DATA: BASELINE NEW		
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4522 +28V COM						
LEAD ANALYST:	A.D. MOI	NTGOMERY					
ASSESSMENT:							
CRITICAL		REDUNDA	NCY	SCREEN	S	CIL ITEM	
FLIGH HDW/FU		A	В		С		
NASA [ 2 /1F IOA [ 3 /1F	R ] [	P ] P ]	[ P	] [	P ] P ]	x ]	] <b>*</b>
COMPARE [ N /	] [	]	[ N	] [	1	[	]
RECOMMENDATIONS	: (If d	lifferen	t fro	om NASA	<b>(</b> )		
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* CIL RETENTION	RATIONAL	E: (If	appl		ADEQUATE	[	]
REMARKS: SINGLE FAILURE	OF SWITCH	H POLE/C	ONTA	CT SET	WOULD NOT	CAUS	E LOSS O

SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL. SWITCH FAILURE CONSIDERED READILY APPARENT, PASSING ALL SCREENS.

ASSESSM NASA FMI	ENI EA	. I	DATE:	ME 05-	CH/KBD-4524 -6EH-56000-4 CH/KBD/EPD&C										IASA DA BASEL:		[		]	
SUBSYSTI MDAC ID: ITEM:	em : :			452	24															
LEAD AN	LY	ST	<b>':</b>																	
ASSESSME	ENT	:																		
		F	LIGH				R	EDUN	IDAN	CY	S	CREE	:N:	S			CI	-		
	]	HD	W/FU	NC			A			В				С			IT	E	1	
NASA IOA	]	2 3	/1R /3	]		]	P	]	]	P	]		]	P	]		]	X X	]	*
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RECOMMEN	DAI	ric	ONS:	(:	Ιf	di	.ff	ere	nt :	fr	om.	NAS.	A)							
				]										P		(AD	[ D/1	DE	] LE	TE)
* CIL RE	ren	ΙΤΙ	ON I	OITAS	ONA:	LE	:	(If	app	<b>,</b> 1	ica	ble	)							
REMARKS:													EN	AD	EQUATI EQUATI	3	•		]	
SINGLE FAVEHICLE/N CONTROL. SCREENS.	AIL MIS S	UR SI WI	E OF ON. TCH	SEC FAII	TCI ONI URI	H O E	PO FA CO	LE/( ILUI NSII	CONT RE C DERE	'AC OU D	T LD RE	SET CAU ADII	W JS LY	OU E A	LD NOT LOSS ( PPAREN	CA OF I	AUS DE I	E PL	LOY, SII	OSS OF /STOW NG ALL

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SUBSYSTEM MDAC ID:					452	H/K 6 V C																	
LEAD ANAI	ΥS	T:	i		A.I	). M	ON	TG	OMI	ERY													
ASSESSMEN	T:																		<b>4</b>				
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	1			GHT FUI				A				В				С							
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COMPARE	[	N	/	'N	]		[	N	]		[	N	3		[	N	]		[		]		
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5	9-4530 66000-4		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4530 +28V COM	TACT #4			
LEAD ANALYST:	A.D. MOI	1TGOMERY			
ASSESSMENT:					CTI
CRITICAL		REDUNDA	NCY SCRE	ENS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SINGLE FAILURE OF SWITCH POLE/CONTACT SET WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. SECOND FAILURE COULD CAUSE LOSS OF DEPLOY/STOW CONTROL. SWITCH FAILURE CONSIDERED READILY APPARENT, PASSING ALL SCREENS.

ASSESSM ASSESSM NASA FM	EN EN EA	T 1 T :	DATE ID: :	2/03 MECH 05-6	/8 i/Ki EH-	8 BD- -5€	-453 5000	2 -4				N	IASA DA' BASELI N		•	]	
SUBSYST MDAC ID ITEM:	EM :	:		MECH 4532 +28V												•	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4534	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4534 +28V CONTACT #2	2	· .
LEAD ANALYST:	A.D. MONTGOMERY	!	
ASSESSMENT:			
CRITICAL FLIGH	ITY REDUNDA	ANCY SCREENS	CIL ITEM
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SCREENS.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4536 05-6EH-56000-	i •4	NASA DAT BASELIN NE	
	MECH/KBD/EPD& 4536 +28V CONTACT			
LEAD ANALYST:	A.D. MONTGOME	RY		
ASSESSMENT:				
FLIGHT				CIL ITEM
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5			NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4538 +28V CON	TACT #4			
LEAD ANALYST:	A.D. MOI	NTGOMERY			
ASSESSMENT:	TMV	REDUNDA	NCY SCREE	ns	CIL ITEM
CRITICAI FLIGH HDW/FU	IT	A	В	С	
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SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 14689 DIODE (S	BLE CIRCU	IT)		
LEAD ANALYST:	M. BRADI	YAY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	INS	CIL ITEM
FLIGH HDW/FU		A	В	С	
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SUBSYST MDAC ID ITEM:	EM:	454	H/KBD/EPD 7 GATE #1	&C		( <b>x</b> )
LEAD AN	ALYST:	A.D.	MONTGOM	ERY		
ASSESSMI	ENT:					
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MDAC ID:	MECH/KBD, 4549 AND GATE				
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	NS	CIL ITEM
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SUBSYSTI MDAC ID: ITEM:		4569			&C SWITCH	#1					
LEAD ANA	ALYST:	A.D.	MONT	GOMI	ERY						
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REMARKS	:																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/05/88 MECH/KBI 05-6EH-5	0-4577 56020-2				ASA DATA BASELINI NEV	E [	x ]	
	MECH/KBD 4577 AND GATE								
LEAD ANALYST:	A.D. MON	TGOMERY	<u>.</u>						
ASSESSMENT:									
CRITICALI FLIGHT	נ	REDUNDA		SCREE				IL TEM	
HDW/FUN	IC	A	В		С				
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* CIL RETENTION R	ATIONALE	: (If a	ppli	cable	-				
REMARKS:				:		EQUATE EQUATE	[	]	

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SUBSYSTE MDAC ID: ITEM:				45	CH/KI 83 P #1	ВD	)/E	PD&C	2												
LEAD ANA	LYS	T:		A.	D. M	ON	ľTG	OME	RY												
ASSESSME	NT:	;																			
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* CIL RI	ete:	NT:	ION :	RAT	ANOI	L	E:	(If	a	þ	<b>,1</b> :	ica				DEQUAT:				]	

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SUBSYSTI MDAC ID: ITEM:				45	•		<b>D/</b> :	EPD&	C										
LEAD ANA	LY	ST	:	A.	D. 1	101	NT(	GOME	RY										
ASSESSME	ENT	:																	
	CR		ICAL LIGH				R	EDUN	DAI	1CY	SCI	REEN	S				[L	æ	
	,		W/FU				A			В			C			1.1	CEN	1	
NASA IOA	•		/1R /1R	]		[	P P	]	[	F	]	[	P P	]		]	X X	]	*
COMPARE	[		/	]		[		]	[	•	]	(		]		[		]	
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ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/05/88 MECH/KBD-4 05-6EH-560	.592 )20 <b>–</b> 2	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4592 K27	ZPD&C		
LEAD ANALYST:	A.D. MONTO	GOMERY		
ASSESSMENT:				
CRITICAL		EDUNDANCY SO	CREENS	CIL ITEM
FLIGH HDW/FU	_	В	С	
NASA [ 3 /1R IOA [ 3 /1R	[ P	] [ F ] ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ /	] [	] [ ]	[ ]	[ ]
RECOMMENDATIONS:	(If dif	ferent from	NASA)	
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* CIL RETENTION REMARKS:	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-	4594 6020-2		NASA DATA BASELINE NEW	
	MECH/KBD/ 4594 K37	EPD&C			•
LEAD ANALYST:	A.D. MONT	GOMERY			
ASSESSMENT:					
CRITICALI FLIGHT		EDUNDAN	CY SCREE	NS	CIL
HDW/FUN			В	С	ITEM
NASA [ 3 /1R IOA [ 3 /1R	] [ P	] [	F ] F ]	[ P ] [ P ]	[ X ] * [ X ]
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* CIL RETENTION R	ATIONALE:	(If app	licable)		_
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SUBSYSTEM MDAC ID: ITEM:	M:	MECH/KI 4598 DEPLOY			тсн	#2						
LEAD ANA	LYST:	A.D. MO	OTIC	OMER	ľ							
ASSESSME	NT:											
•	CRITICAL FLIGH HDW/FU	T	RE A	EDUNDA	ANCY B	SCREE	ns	c C	CI II	L	ſ	
NASA IOA	·	2 ]	[ P	]	[ <b>F</b>	]	[	P ] P ]	[	X X	]	*
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* CIL RE	TENTION	RATIONA	LE:	(If a	appl:	icable		ADEQUATE NADEQUATE	_		]	
REMARKS:												

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBI	0-4543 56021 <b>-</b> 2		NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBI 4543 AND GATE	•			
LEAD ANALYST:	A.D. MON	TGOMERY			
ASSESSMENT:					
CRITICAL: FLIGHT		REDUNDA	NCY SCRE	ens	CIL ITEM
HDW/FUI		A	В	С	
NASA [ 2 /1R IOA [ 3 /2R	] [	P ] P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	1	[ ]	[ ]	[ ]
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REMARKS: POTENTIAL LOSS OF LOSS OF REDUNDANT FLIGHT.	F CREW/MI	SSION V	ERIFIED ( ONSIDERE	UPON FURTHER	REVIEW.

ASSESSMEN ASSESSMEN NASA FMEA	T.	[D	•	2/04/88 MECH/KI 05-6EH	20	-45 602	545 21-2				1	NAS Bi	SA DATA ASELINE NEV	Y [	x	] ]		
SUBSYSTEM MDAC ID:				MECH/KI 4545 AND GA	TE	#:	2											
LEAD ANAI	LYS	T:		A.D. M	ON	TG	OMERY											
ASSESSME	T:													C.	ΙL			
	CRI	TI	CAL	<b>TTY</b>		RE	DUNDA	NC	Y	SCR	EENS	•			rem	[		
	F		IGHT /FUI			A			В			С						
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* CIL RI	ETE	:NT	ION	RATION	ΙAΙ	Œ:	(If	ap	pl	ical	ble)	A NA	DEQUAT		[	]		
REMARKS POTENTI LOSS OF FLIGHT.	: AL RI	LC	SS (	OF CREW	W.	MIS	SION NOT	CC	er] ons	FIE	D UI RED	90N RI	N FURTH	IER APP	REV ARI	'I E	ew. r dur:	ING

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SUBSYS MDAC : ITEM:	STE ID:	M:				MECH 4551 AMP	L	BD,	/EPI	O&C								-		•		
LEAD A	NA:	LY	ST	:		A.D.	MC	ГИC	'GOM	ŒRY												
ASSESS	ME	NT	:																			
	(		F	LIG	HT			R	EDU	NDAN	īC	Y	SC	REEI	IS			CI	L EM	•		
						C		A				В			С			11	-CM			
NAS IO	A A	[	2 3	/1 /2	R R	]	[	P P	]	[	1	F F	]	[	P P	]		[	X X	]	*	
COMPAR	E	[	N	/N		]	[		]	[			]	[		]		[		]		
RECOMM	END	ÌΊ	'IC	)NS	:	(Ii	f d:	if	fere	ent	fr	<b>:</b> 01	n N	IASA	)							
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REMARKS POTENTT	: 'AT.	т,	26	c 0		<b>an</b> =	4								<b>IAD</b>	EQUAT	Έ	[	]			
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SUBSYSTEM MDAC ID:			MECH/1 4553 AMP #2	2												
LEAD ANAL	YST:		A.D. 1	MON	TG	OMERY	?									
ASSESSMEN	T:												٥.			
c	RITI				RE	DUNDA	NC	Y	SCR	EENS	•			LT LEW		
	FL: HDW	IGH /FU			A			В			С					
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RECOMMEN	DATIC	NS:	(1:	e di	if:	feren	t	fr	om N	IASA	)					
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REMARKS: POTENTIA LOSS OF FLIGHT.	L LO	SS NDA	OF CRE	W/M DWA	IIS	SION NOT	CC	eri Ons	FIE	D UI RED	PON RE	FURTHE	R I	REV ARE	IE	W. DURING

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SUBSYST: MDAC ID ITEM:				MECH 4559 K14	/KI	BD,	/EPD	&C							•	•	
LEAD AND	ALY	ST	<b>':</b>	A.D.	MC	l'N	GOME	ERY									
ASSESSMI	ENT	:															
		F	LIGH:			R	EDUN	DAN	CY	SCI	REEN	S			IL		
	1	HD	W/FUI	1C		A			В			С		1	TEM		
NASA IOA	[	2 3	/1R /2R	]	[	P P	]	]	F F	]	[	P P	]	[	X X	] * 1	
COMPARE	[	N	/N	]	[		]	[		]	[		]	[		-	
RECOMMEN	DAI	'IC	ens:	(If	đ:	if	fere	nt f	rc	m N	ASA)						
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* CIL RET	ren	ΤI	ON R	ATION	\LE	:	(If	app	li	cab:	le)						
REMARKS:			•								IN.	AD)	EQUATE EQUATE	[	]		
POTENTIAL LOSS OF R FLIGHT.	SED	un:	S OF DANT	CREW/ HARDW	MI AR	SS E	ION NOT	VER: CONS	IF:	IED DERF	UPO ED R	N ] EAI	FURTHER DILY AP	RE PAR	VIE ENT	W. DUI	RING

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	一 内にしれ/ れり	D-4561 56021-2		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	4561 K68	BD/EPD&C			
LEAD ANALYST:	A.D. MC	ONTGOMERY			
ASSESSMENT:					CIL
CRITIC		REDUNDA	NCY SCREI	ens	ITEM
FLI HDW/		A	В	С	
NASA [ 2 / IOA [ 3 /	1R ] 2R ]	[ P ] [ P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	и ]	[ ]	[ ]	[ ]	[ ]
RECOMMENDATION	s: (If	different	from NA	SA)	
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* CIL RETENTI	ON RATIONA	ALE: (If	applicabl	le) ADEQUATE INADEQUATE	: [ ]
REMARKS: POTENTIAL LOS LOSS OF REDUN FLIGHT.	S OF CREW, DANT HARD	/MISSION WARE NOT	VERIFIED CONSIDER	UPON FURTHE ED READILY A	ER REVIEW. APPARENT DURING

ASSESSMENT DATE: 2/04/88 ASSESSMENT ID: MECH/KBD-456 NASA FMEA #: 05-6EH-5602: SUBSYSTEM: MECH/KBD/EPI								57 L-2						N	IASA DA BASELI N	NE	:	x	]			
SUBSYST	'EM	:		:	MECH	/KE	BD,	/EPD	)&C													
MDAC II	):				4567																	
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LEAD AN	ALY	'SI	?:	1	A.D.	MO	ľ	[GOM	ERY	?												
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COMPARE	[	N	/	]		[		]		[		]	1	-		]		[		]		
RECOMMEN	IDA'	ric	ons:		(If	đi	if:	fere	nt	f	rc	om 1	NASA	۱)								
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* CIL RE	TEN	TI	ON	RA'	rion2	<b>ALE</b>	:	(If	ap	q	li	cab	ole)					•			-,	
REMARKS:													I	A NA	D	EQUATE EQUATE	i		]			
POTENTIA LOSS OF FLIGHT.	RED	UN	DAN'	r C	:REW/ IARDW	MI AR	SS E	ION NOT	CO	R:	IF SI	IED DER	UP(	ON RE	A[	FURTHEI DILY AI	R F	REV RE	IE NT	W.	URI	ING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4 05-6EH-560	571 21 <b>-</b> 2	NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/E 4571 AND GATE #			
LEAD ANALYST:	A.D. MONTG	OMERY		
ASSESSMENT:				
CRITICAL		EDUNDANCY SO	CREENS	CIL ITEM
FLIGH HDW/FU		В	С	
NASA [ 2 /11 IOA [ 3 /21	R ] [ P	] [ F ] ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	] [ ]	[ ]	[ ]
RECOMMENDATIONS	: (If dif	ferent from	NASA)	
	R ] [ P	[ F ]	[ P ]	[ A ] DD/DELETE)
* CIL RETENTION	RATIONALE:	(If applic	able) ADEQUATE INADEQUATE	[ ]
REMARKS: POTENTIAL LOSS LOSS OF REDUNDA FLIGHT.	OF CREW/MIS	SSION VERIFI E NOT CONSID	ED UPON FURTHER DERED READILY AF	R REVIEW. PPARENT DURING

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SUBSYSTE MDAC ID: ITEM:	em:			MECI 4573 AND	3			&C							•		•
LEAD ANA	LY	SI	<b>!:</b>	A.D.	MO	NI	GOM	ERY									
ASSESSME	NT	:															
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POTENTIAL LOSS OF R FLIGHT.	ED	us Un	S OF DANT	CREW HARD	VAR	SS E	ION NOT	VER	RIF	IEI DEF	D UPC	N EA	FUR?	THER API	REV ARE	IEV NT	DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD- 05-6EH-56	-4579 5021 <b>-</b> 2		NASA DATA: BASELINE NEW	
	MECH/KBD, 4579 AMP #1	/EPD&C			
LEAD ANALYST:	A.D. MON	<b>IGOMERY</b>			
ASSESSMENT:					
CRITICAL		REDUNDA	NCY SCREE	ens	CIL ITEM
FLIGH HDW/FU		A	В	С	
NASA [ 2 /1R IOA [ 3 /2R	l] [	P ] P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] *
COMPARE [ N /N	_		[ ]	[ ]	[ ]
RECOMMENDATIONS:	(If di	fferent	from NAS	SA)	
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* CIL RETENTION	RATIONALI	E: (If a	applicabl	e) ADEQUATE INADEQUATE	
REMARKS: POTENTIAL LOSS LOSS OF REDUNDA FLIGHT.	OF CREW/MI	ISSION V	VERIFIED CONSIDERE	UPON FURTHER D READILY AF	REVIEW. PARENT DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/04/88 MECH/KBD-4581 05-6EH-56021-	2	NASA DATA BASELINE NEW	
MDAC ID:	MECH/KBD/EPD& 4581 AMP #2	c		
LEAD ANALYST:	A.D. MONTGOME	RY		
ASSESSMENT:				
CRITICALI FLIGHT	TY REDUN	DANCY SCREE	ns	CIL
HDW/FUN		В	С	ITEM
NASA [ 2 /1R IOA [ 3 /2R	] [ P ] ] [ P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]
COMPARE [ N /N	] [ ]	[ ]	[ ]	[ ]
RECOMMENDATIONS:	(If differer	nt from NAS	A)	
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* CIL RETENTION R	ATIONALE: (If		ADEQUATE	[ ]
REMARKS:			INADEQUATE	
POTENTIAL LOSS OF LOSS OF REDUNDANT FLIGHT.	CREW/MISSION HARDWARE NOT	VERIFIED UI CONSIDERED	PON FURTHER READILY APP	REVIEW. ARENT DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-458	7 BA	SA DATA: ASELINE [ ] NEW [ X ]
	MECH/KBD/EPD 4587 K25	)&C	
LEAD ANALYST:	A.D. MONTGOM	ŒRY	
ASSESSMENT:			
CRITICAL		INDANCY SCREENS	CIL ITEM
FLIGH HDW/FU	_	в с	
NASA [ 2 /1R IOA [ 3 /2R	] [P]	[F] [P [F] [P	[ X ] *
COMPARE [ N /N	] [ ]	[ ] [	] [ ]
RECOMMENDATIONS:	(If differ	rent from NASA)	
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* CIL RETENTION	RATIONALE: (	If applicable) AD INAD	DEQUATE [ ] DEQUATE [ ]
REMARKS: POTENTIAL LOSS ( LOSS OF REDUNDAN	OF CREW/MISSIONT HARDWARE N	ON VERTETED UPON	

FLIGHT.

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4589	NASA DATA BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4589 K2		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICALI FLIGHT	TTY REDUNDAN	CY SCREENS	CIL
HDW/FU		в с	ITEM
NASA [ 2 /1R IOA [ 3 /2R	] [P] [ ] [P] [	F ] [ P ] F ] [ P ]	[ X ] * [ X ]
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RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION R	ATIONALE: (If app	•	
DEMANUC.		ADEQUATE INADEQUATE	[ ]
REMARKS: POTENTIAL LOSS OF LOSS OF REDUNDANT FLIGHT.	CREW/MISSION VER HARDWARE NOT CON	RIFIED UPON FURTHER SIDERED READILY APP	REVIEW. ARENT DURING

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBL	MECH/KBD-4596 05-6EH-56021-2 MECH/KBD/EPD&C												
SUBSYSTEM: MDAC ID: ITEM:	4596	D/EPD&C CROSWITC	H #2											
LEAD ANALYST:	A.D. MOI	ntgomery	•											
ASSESSMENT:														
CRITICAL		REDUNDA	NCY SCREI	ens	CIL ITEM									
FLIGH HDW/FU		A	В	С										
NASA [ 2 /11 IOA [ 3 /11	R ] [	P ] P ]	[ F ] [ F ]	[ P ] [ P ]	[ X ] * [ X ]									
COMPARE [ N /	_	1	[ ]	[ ]	[ ]									
RECOMMENDATIONS	: (If d	differen	t from NA	SA)										
		[ P ]	[ F ]	[ P ]	[ A ] ADD/DELETE)									
* CIL RETENTION	RATIONA	LE: (If	applicabl	.e) ADEQUATE INADEQUATE										
REMARKS: POTENTIAL LOSS LOSS OF REDUNDA	OF CREW/	MISSION ARE NOT	VERIFIED CONSIDERI	UPON FURTHE ED READILY A	R REVIEW PPARENT DURING									

FLIGHT.

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SUBSYST MDAC ID ITEM:	EM:			14	ECH/I 4694 LODE					s.	IN	DICA	TIC	ON)					
LEAD AN	ALY	ST	:	M.	BRA	DW	AY												
ASSESSMI	ENT	:																	
		F	ICAL LIGH W/FU	T			RED A	UND	AN	CY B	SC	REEN				CI IT	L EM		
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COMPARE	[		/	]		[	]		[		)	ι		]		[	]		
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REMARKS:							•		E- F		-42			EQUAT:			]		

ASSESSME ASSESSME NASA FME	NT I	D:	MECH/I	KBD-							DATA: LINE NEW	[	]
SUBSYSTE MDAC ID: ITEM:	M:		MECH/I 14695 DIODE	•			MII	r scan	EN	NABL	E)		
LEAD ANA	LYSI	?:	M. BRA	ADWA	Y.								
ASSESSME	NT:												
		ICALI LIGHT		R	EDUN	DANC	Y S	CREEN	S			CIL	
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<b>REMARKS:</b>										_		-	•

ASSESSME ASSESSME NASA FME	NT	II	ATE: D:	TE: 2/26/88 : MECH/KBD-14696X 05-6EH-56054-2										DATA: LINE NEW	[					
SUBSYSTE MDAC ID:				14	H/KE 696 ODE	-				/XI	MI	T S	SCAN	Eì	VABL	E)				
LEAD ANA	LYS	ST	:	M.	BRA	<b>ADV</b>	<b>VA</b> Y	<u>r</u>												
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RECOMMEN	IDA'	ri	ons:		(If	d:	if	fere	nt	f	rc	om I	NASA	)						
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ASSESSMENT DATE: 2/26/88 ASSESSMENT ID: MECH/KBD-14697 NASA FMEA #: 05-6EH-56055-1 SUBSYSTEM: MECH/KBD/EPD&C							K				NA: B	SA I ASEI	DATA LINE WEW		x	]			
SUBSYSTEM MDAC ID:	i <b>:</b>							PD&C		s	CAN	EN#	BL	E)					
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ASSESSMEN	IT:															_	<b>T</b> T		
(	CRI	TI	CAL	[TY			RE	DUND	ANC	CY	SCF	REEN	S				IL TEI	M	
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* CIL RE	ETE	ΓN	MOI	RA	TION	ΑI	Æ:	(If	aŗ	pl	ica	ble	P INP	ADEQ ADEQ	TAU! TAU!	E E	[	]	
REMARKS	:																		

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SUBSYST MDAC ID ITEM:	EM:			14	CH/K 698 ODE			D&C INIT	'IA	TE)					·	••		
LEAD AND	ALY	ST	<b>':</b>	M.	BRA	DWA	Y			·								
ASSESSMI	ENT	:																
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NASA IOA	]	3 3	/1R /1R	]	[	P	]	[	F F	]	]	P P	]		[	X X	]	*
COMPARE	[		/		[		]	[		]	[		]		[		]	
RECOMMEN	DAI	'IC	ons:	(	If d	ifi	fer	ent f	rc	om N	(ASA)							
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* CIL RE	ren	ΤI	ON R	ATI	ONAL	E:	(Ii	f app	li	cab	le)							
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ASSESSME ASSESSME NASA FME	ID:	2/26/ MECH/ 05-6E	KBD-					SA DATA SELINE NEW		] <b>(</b> ]	
SUBSYSTE MDAC ID:			MECH/ 14699 FUSE	•			E)				
LEAD ANA	LYS	T:	M. BR	ADWA	Y						
ASSESSME	NT:										
	CRI	TICAL FLIGH		F	EDUN	DANCY	SCR	EENS		CII	
	Н	DW/FU	_	A		E	3	С		ITE	EM
NASA IOA	[	3 /1R 3 /1R	]	[ P	]	[ F	]	[ P ] [ P ]		к ] к ]	: ] <b>*</b>
COMPARE	[	/	]	[	]	[	]	[ ]		[	]
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* CIL RE	TEN	TION I	RATION	ALE:	(If	appl	icab	ADE	QUATE QUATE	[	]

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4501 05-6EH-56060-1	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4501 +28V CONTACT #1		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
	ITY REDUNDAN	CY SCREENS	CIL ITEM
FLIGH HDW/FU		ВС	
NASA [ 2 /1R IOA [ 3 /3	] [ P ] [	NA] [ P ] ] [ ]	[ X ] * [ X ]
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RECOMMENDATIONS:	(If different	from NASA)	
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* CIL RETENTION	RATIONALE: (If ap	oplicable) ADEQUATE INADEQUATE	[ ]
LOSS OF VEHICLE	MISSION. FAILURE	CONTACT SET OPEN WOULD E OF REDUNDANT HARDWA D NOT CONSIDERED REAL	LD NOT CAUSE ARE COULD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-6 05-6EH-560	4503 060-1	1	NASA DATA: BASELINE NEW	[ x ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/1 4503 +28V CONT												
LEAD ANALYST:	A.D. MONT	GOMERY											
ASSESSMENT:					ATT								
CRITICAL		REDUNDANC	Y SCREENS		CIL ITEM								
FLIGH HDW/FU		<b>\</b>	В	С									
NASA [ 2 /1] IOA [ 3 /3	R] [ I	] [	] [AN	P ]	[ X ] *								
COMPARE [ N /N	j [ 1	] [ 18	и][	N ]	[ ]								
RECOMMENDATIONS	: (If di	fferent f	rom NASA	)									
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* CIL RETENTION	RATIONALE	: (If app		ADEQUATE NADEQUATE	[ ]								
REMARKS: FAILURE OF A SI LOSS OF VEHICLE CAUSE LOSS OF V	REMARKS: FAILURE OF A SINGLE SWITCH POLE/CONTACT SET OPEN WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF REDUNDANT HARDWARE COULD CAUSE LOSS OF VEHICLE/MISSION AND NOT CONSIDERED READILY APPARENT												

NASA FM	2/03/88 MECH/KBD-4505 05-6EH-56060-1 MECH/KBD/EPD&C						NASA DATA: BASELINE [ ] NEW [ X ]											
WDWC ID	cm: :			1	1ECH, 1505	/KI	BD/	'EPD	&C									
ITEM:					-28V	CC	ra	'ACT	#3									
LEAD AND	ALY	SI	? <b>:</b>	Į	.D.	MC	IN	'GOMI	ERY									
ASSESSMI	ENT	:																
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT HDW/FUNC A B C																		
							A			В			С	}		IT	EM	
NASA IOA	]	2	/1R /3	]		[	P	]	[	N.	A]	[	P	]		[ ]	х ј х ј	*
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RECOMMEN	DAI	CIC	ons:		(If	d:	Ĺfí	fere	nt i	fro	om 1	IASA	)					
													P	]	(AI	[ A	) ELE	TE)
* CIL RE	ren	ΤI	ON I	RAI	CION	ALF	:	(If	app	li	cab	le)						
REMARKS:	) E		CTV										IAV	EQUA:	CE		]	
LOSS OF V CAUSE LOS DURING FI	FAILURE OF A SINGLE SWITCH POLE/CONTACT SET OPEN WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF REDUNDANT HARDWARE COULD DURING FLIGHT.																	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD 05-6EH-5	0-4507 66060-1		NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4507 +28V CON				
LEAD ANALYST:	A.D. MON	ITGOMERY			
ASSESSMENT:					
CRITICAL: FLIGH		REDUNDANC	CY SCREENS	;	CIL ITEM
HDW/FU	NC	A	В	С	
NASA [ 2 /1R IOA [ 3 /3	] [	P ] [	NA] [ ] [	P ]	[ X ] * [ X ]
COMPARE [ N /N	] [	N ] [	N ] [	N ]	[ ]
RECOMMENDATIONS:	(If di	fferent f	from NASA)		
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* CIL RETENTION	RATIONALE	E: (If app	•	ADEQUATE IADEQUATE	[ ]
REMARKS: FAILURE OF A SIN LOSS OF VEHICLE/ CAUSE LOSS OF VE DURING FLIGHT.	MISSION.	FAILURE	ONTACT SET	OPEN WOUL	LD NOT CAUSE ARE COULD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4509 05-6EH-56060-1	NASA DATA: BASELINE NEW	[
	MECH/KBD/EPD&C 4509 +28V CONTACT #1		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL: FLIGH	ITY REDUNDANC	CY SCREENS	CIL ITEM
HDW/FU	NC A	ВС	
NASA [ 2 /1R IOA [ 3 /1R	] [ P ] [ ] [ P ]	NA] [ P ] F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [ ] [	N ] [ ]	[ ]
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* CIL RETENTION	RATIONALE: (If app		
		ADEQUATE INADEQUATE	
LOSS OF VEHICLE/I	MISSION. FAILURE	ONTACT SET OPEN WOUL OF REDUNDANT HARDWA NOT CONSIDERED READ	D NOT CAUSE

ASSESSMENT DATE ASSESSMENT ID: NASA FMEA #:	WECH\ KB	D-4511 56060-1	NA B	SA DATA: ASELINE [ NEW [	x ]
SUBSYSTEM: MDAC ID: ITEM:	MECH/KB 4511 +28V CO	D/EPD&C NTACT #2			
LEAD ANALYST:	A.D. MO	NTGOMERY			
ASSESSMENT:					
CRITICA	LITY	REDUNDANC	Y SCREENS		CIL ITEM
FLIC HDW/I	UNC	A	В С		
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COMPARE [ N /			и] [		[ ]
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* CIL RETENTIO	N RATIONA	LE: (If ap)		ADEQUATE ADEQUATE	
REMARKS: FAILURE OF A S LOSS OF VEHICI CAUSE LOSS OF DURING FLIGHT.	E/MISSION VEHICLE/M	TCH POLE/C FAILURE	ONTACT SET OF REDUNDA NOT CONSII	OPEN WOU! ANT HARDWI DERED REA!	LD NOT CAUSE ARE COULD DILY APPARENT

	ENT EA EM:	[ ] #:	ID:	MECH 05-6 MECH 4513	MECH/KBD-4513 D5-6EH-56060-1 MECH/KBD/EPD&C						NASA DATA: BASELINE [ ] NEW [ X ]							
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ASSESSMI	ENT	:																
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NASA					r	ъ	,					_						
IOA	į	3	/1R	]	[	P	]	[	F.	A ]	]	P P	] ]		[	X ] X ]	*	
COMPARE	[	N	/	]	[		]	[	N	]	[		]			]		
RECOMMEN	DA'	ric	ONS:	(If	di	if	fere	nt i	fro	om 1	NASA	)					•	
	[	3	/1R	]	[	P	]	[	F	]	[	P	]	(AD	[	) EL	ETE	)
* CIL RE	TEN	TI	ON R	ATION	ALE	:	(If	app	li	.cab	ole)							•
REMARKS: FAILURE ( LOSS OF	OF VEH	A	SING	LE SW	ITC	H	POLE	E/CO	NT	'ACT	II SE	VAI C	EQUAT EQUAT PEN V	OUL:	DN	OT	CAU JLD	JSE
CAUSE LOS DURING FI	LIG	HT		топе/	MID	SΙ	UN A	MD	NO	тс	ONS	DE	RED F	READ	ILY	AI	PAF	≀ENT

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	WECH\ KRD	-4313	NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD 4515 +28V CON										
LEAD ANALYST:	A.D. MON	TGOMERY									
ASSESSMENT:											
CRITICAL		REDUNDAN	CY SCREE	NS	CIL ITEM						
FLIGH HDW/FU	T NC	A	В	С							
NASA [ 2 /1F IOA [ 3 /1F	t] [	P ] [	NA] F]	[ P ] [ P ]	[ X ] * [ X ]						
COMPARE [ N /	_		[и]	[ ]	[ ]						
RECOMMENDATIONS	(If d	ifferent	from NAS	SA)							
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* CIL RETENTION	RATIONAL	E: (If a	pplicable	e) ADEQUATE INADEQUATE	[ ]						
REMARKS: FAILURE OF A SI LOSS OF VEHICLE	NGLE SWIT	CH POLE/ FAILUR	CONTACT : E OF RED D NOT CO	SET OPEN WOU UNDANT HARDY NSIDERED REA	JLD NOT CAUSE WARE COULD ADILY APPAREN						

CAUSE LOSS OF VEHICLE/MISSION AND NOT CONSIDERED READILY APPARENT DURING FLIGHT.

ASSESSM ASSESSM NASA FM	/88 /KI EH-	KBD-4501 <b>A</b> H-56060-3							NASA DATA: BASELINE [ ] NEW [ X ]								
SUBSYST MDAC ID ITEM:	EM:			MECH 4501 +28V												-	
LEAD AND	ALY	ST	<b>:</b>	A.D.	MO	NT	GOME	ERY									
ASSESSMI	ENT	:															
		r	TITGU	_		R	EDUN	DAN	CY	sc	REEN	s			CIL ITE		
		HD	W/FU	NC		A			В			C				1.1	
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RECOMMEN	DAT	ric	ONS:	(If	đ:	ifi	fere	nt 1	fro	om 1	NASA)	)					
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REMARKS:											IN	IAD	EQUATE EQUATE	Ī			
FAILURE (LOSS OF CAUSE LOSDURING FI	OF VEH SS LIG	A IC OF HT	SING LE/M VEH	LE SW (ISSIO) (ICLE/)	ITC N. MIS	H F SI	POLI AILU ON A	E/CO JRE MD	NT OF NO	'ACI 'RE TC	SET DUND ONSI	AN DE	PEN WOU T HARDI RED REA	JLD VAR ADI	NO E C LY	T OU AP	CAUSE LD PARENT

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBL	1-45U3A	NASA DATA: BASELINE NEW						
	MECH/KBI 4503 +28V CON								
LEAD ANALYST:	A.D. MOI	TGOMERY							
ASSESSMENT:									
CRITICAI FLIGH		REDUNDANC	Y SCREENS		CIL ITEM				
HDW/FU		A	В	С					
NASA [ 2 /1F IOA [ 3 /3		P ] [	) [AN	P ]	[ X ] * [ X ]				
COMPARE [ N /N	] [	N ] [	N ] [	и]	[ ]				
RECOMMENDATIONS	(If d	ifferent	from NASA)	ı					
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* CIL RETENTION	RATIONAL	E: (If ap		ADEQUATE NADEQUATE					
REMARKS: FAILURE OF A SI LOSS OF VEHICLE CAUSE LOSS OF V DURING FLIGHT.	NGLE SWIT /MISSION EHICLE/MI	CCH POLE/C FAILURE ISSION AND	ONTACT SE OF REDUN NOT CONS	I OPEN WOU DANT HARDW IDERED REA	LD NOT CAUSE ARE COULD DILY APPARENT				

ASSESSM ASSESSM NASA FM	ENT	' I	D:	ME	CH/	KE	D-	450! 060-	5A -3	NASA DATA: BASELINE [ ] NEW [ X ]										
SUBSYSTIMDAC ID	EM:			45	05			EPD& ACT												
LEAD ANA	<b>Y</b> LY	ST	:	A.	<b>D.</b> 1	MO	NT	GOME	ERY											
ASSESSMI	ENT	:																		
		F.	ICAL LIGH	ľ					DAN(	CY	so	CREE	NS	3				IL CEN		
			W/FU							_				С				. EF	1	
NASA IOA													[	P	]		[	X X	]	*
COMPARE	[	N	/N	]		[	N	]	[	N	]		[	N	]		[		]	
RECOMMEN	DAT	ric	ons:	(	(If	đi	ff	ere	nt f	rc	om	NASZ	A)							
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* CIL RE	TEN	ITI	ON F	ITAS	ONA	LE	:	(If	app	li	.ca									
REMARKS:													N.	AD	EQUATE EQUATE	į	-		]	
FAILURE (LOSS OF CAUSE LOSDURING FI	SS	OF	VEH																	

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SUBSYSTEM: MDAC ID: ITEM:		MECH/KI 4507 +28V C					•								
LEAD ANALYST	·	A.D. M	ONTG	OMERY											
ASSESSMENT:															
	CICAL		RE	DUNDA	NC	Y:	SCREE	NS			CI	L EM			
· ·	FLIGHT OW/FUN		A			В			С						
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COMPARE [ 1	N /N	1	[ N	]	[	N	]	[	N	]	[		]		
RECOMMENDAT	ions:	(If	diff	erent	= 1	fro	om NAS	A)							
[ :	3 /1R	]	[ P	]	[	F	]	[	P	] (A)		A /DE		ETE)	
* CIL RETEN	TION :	RATIONA	LE:	(If a	apj	pli	icabl€		IA IAN	DEQUATE DEQUATE	[		]		
REMARKS: FAILURE OF LOSS OF VEH CAUSE LOSS															1

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4509A 05-6EH-56060-3	NASA DATA: BASELINE NEW	[ ] [ x ]
	MECH/KBD/EPD&C 4509 +28V CONTACT #1		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL) FLIGHT HDW/FUN	•		CIL ITEM
		_	
NASA [ 2 /1R IOA [ 3 /1R	] [P] [ ] [P]	NA] [ P ] F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [][	<b>n</b> ] [ ]	[ ]
RECOMMENDATIONS:	(If different	from NASA)	
[ 3 /1R	] [P] [		[ A ] D/DELETE)
* CIL RETENTION R	ATIONALE: (If any	nlicable	•
REMARKS:		ADEQUATE	[ ]
		ONTACT SET OPEN WOULD OF REDUNDANT HARDWAF NOT CONSIDERED READI	

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4511A 05-6EH-56060-3	NASA DATA: BASELINE NEW	
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4511 +28V CONTACT #2		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT:			
CRITICAL: FLIGHT	TY REDUNDANC	CY SCREENS	CIL ITEM
	NC A	В С	
NASA [ 2 /1R IOA [ 3 /1R	] [ P ] [ ] [ P ]	NA] [ P ] F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	] [ ] [	и] []	[ ]
RECOMMENDATIONS:	(If different f	rom NASA)	
[ 3 /1R	] [ P ] [		[ A ] DD/DELETE)
* CIL RETENTION I	RATIONALE: (If app	ADEOUATE	[ ]
LOSS OF VEHICLE/N	IISSION. FAILURE	INADEQUATE  ONTACT SET OPEN WOUL  OF REDUNDANT HARDWA  NOT CONSIDERED READ	[ ] LD NOT CAUSE LRE COULD

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	MECH/KBD-4513A	NASA DATA: BASELINE NEW											
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4513 +28V CONTACT #3												
LEAD ANALYST:	A.D. MONTGOMERY												
ASSESSMENT:													
CRITICALITY REDUNDANCY SCREENS CIL FLIGHT ITEM													
		В С											
NASA [ 2 /1R IOA [ 3 /1R	] [ P ] [ ] [ P ]	NA] [ P ] F ] [ P ]	[ X ] * [ X ]										
COMPARE [ N /	] [ ] [	и] []	[ ]										
RECOMMENDATIONS:	(If different f	rom NASA)											
[ 3 /1R	] [P] [		[ A ] DD/DELETE)										
	RATIONALE: (If app	olicable) ADEQUATE INADEQUATE	[ ]										
LOSS OF VEHICLE/	MISSION. FAILURE	ONTACT SET OPEN WOUL OF REDUNDANT HARDWA NOT CONSIDERED REAL	RE COULD										

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	2/03/88 MECH/KBD-4515A 05-6EH-56060-3	NASA DATA BASELINE NEV	: [
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EPD&C 4515 +28V CONTACT #4		
LEAD ANALYST:	A.D. MONTGOMERY		
ASSESSMENT: CRITICAL	TTY REDUNDAN	ICY SCREENS	CIL ITEM
FLIGH HDW/FU	HT _	В С	
NASA [ 2 /1] IOA [ 3 /1]		[ NA] [ P ] [ F ] [ P ]	[ X ] * [ X ]
COMPARE [ N /	. 1	[и] [и]	[ ]
RECOMMENDATIONS	: (If different	from NASA)	_
[ 3 /1		[F] [P]	[ A ] (ADD/DELETE)
* CIL RETENTION	RATIONALE: (If a	applicable) ADEQUAT INADEQUAT	PE [ ]
REMARKS: FAILURE OF A S	INGLE SWITCH POLE,	CONTACT SET OPEN V	OULD NOT CAUSE ROWARE COULD READILY APPAREN

LOSS OF VEHICLE/MISSION. FAILURE OF REDUNDANT HARDWARE COULD CAUSE LOSS OF VEHICLE/MISSION AND NOT CONSIDERED READILY APPARENT DURING FLIGHT.

ASSESSM ASSESSM NASA FM SUBSYST MDAC ID ITEM: LEAD AN	EN EA EM:	* * 'S]	ID:	MECH 05-6 MECH 4500 +28V	I/K EH /KI	BD -5 BD,	/EPD FACT	&C #1			NA: B	SA DAT. ASELIN NEI	A: E [ ] W [ X ]
	O.	·	T										
	CR		ICAI LIGH	YTI		R	EDUN	IDAN	CY	SCI	REENS		CIL
			W/FU			A			В		С		ITEM
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<b>.</b>				]	[	P	]	[	F	]	[ P ]	(AD	[ A ] D/DELETE)
* CIL RET	CEN	TI	ON F	RATION	<b>\LE</b>	:	(If	app	li	cab]	le)		
REMARKS: A SINGLE VEHICLE/M LIFE/VEHI	SW:	IT ST	CH P	OLE SH	OR!	<b>r</b> 1	MOUL	D No	OΤ	CAU	ADEQI INADEQI ISE LOSS	JATE OF	[ ] [ ]
REDUNDANT	H.	<b>X</b> RI	)WAR	E FOUN	D.				_	±11 <i>D</i>	TONITON	OF LOS	SS OF

ASSESSMENT DA ASSESSMENT ID NASA FMEA #:	05-6EH	-56060-6		NASA DATA: BASELINE NEW	[ x ]
SUBSYSTEM: MDAC ID: ITEM:	4502 +28V	KBD/EPD&C			
LEAD ANALYST	: A.D.	MONTGOMERY	•		
ASSESSMENT:					CIL
CRIT	ICALITY	REDUNDA	NCY SCREE	NS	ITEM
F HD	LIGHT W/FUNC	A	В	С	
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_ •	1 /N ]	[ N ]	[и]	[и]	[ ]
	rons. (I	f differen	t from NAS	SA)	
RECOMMENDAT	3 /1R ]	[ P ]	[ F ]	r P 1	[ A ] ADD/DELETE)
* CIL RETEN	TION RATIO	NALE: (If	applicabl	e) ADEQUATE INADEQUATE	[ ]
REMARKS: A SINGLE SW VEHICLE/MIS LIFE/VEHICL REDUNDANT B	SION. FA	EADILY APP	LD NOT CAU ECOND ITEM ARENT" IND	SE LOSS OF COULD CAUS DICATION OF	E LOSS OF LOSS OF

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #: SUBSYSTEM: MDAC ID: ITEM: LEAD ANALYST: ASSESSMENT:	MECH/K 05-6EH MECH/K 4504 +28V C	BD-4504 -56060-6 BD/EPD&C	5 : :3	NASA DAT BASELIN NE	'A: E [ ] W [ X ]
CRITICAL		REDUND	ANCY SCR		
FLIGHT			met sck	LENS	CIL
HDW/FU	iC	A	В	С	ITEM
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IOA [ 3 /3	j	P ]	[ NA] [ ]	[ P ] [ ]	[ X ] * [ X ]
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, ,	, (	иј	[ N ]	[ N ]	[ ]
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RECOMMENDATIONS:				SA)	
[ 3 /1R	] [	Pj	(F)	[ P ]	_
				/25	[ A ] D/DELETE)
* CIL RETENTION RA	TIONALE	!: (Tf a)	nm1	,	D/ DELETE)
		· (rr a)	bbricapi		_
REMARKS: A SINGLE SWITCH DO	TE Guan			ADEQUATE INADEQUATE	[ ]
A SINGLE SWITCH PO VEHICLE/MISSION.	LE SHOR	T WOULD	NOT CAUS	E LOSS OF	
LIFE/VEHTCLE NO	"READIL	Y APPARE	TOM ITEM	CATTON OF	LOSS OF
REDUNDANT HARDWARE	FOUND.	-	- ~01	CHITOM OF TO	SS OF

ASSESSMEN ASSESSMEN NASA FMEA	T	ID	TE:	2/03, MECH, 05-61	/KBD	-4	506 60-	; -6					1			DATA LINI NEV	E			]	
SUBSYSTEM MDAC ID:				MECH, 4506 +28V																	
LEAD ANAI	LYS	T:		A.D.	MON	TG	OMI	ERY													
ASSESSMEN	1T:																				
C	CRI		CALI	[TY r		RE	EDUI	ADA	NC	Y	SCR	REEN	S					CI I'I	L	ſ	
	H			NC		A				В				С							
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* CIL RE	TE	NT:	ION	RATIO	NAL	E:	(I	fa	ıpı	<b>91</b> :	ical			AI IAI	DEQU DEQU	JATE JATE	2	[		]	
REMARKS: A SINGLE VEHICLE/ LIFE/VEH	MI	SS: LE	ION. . N	FA] O "RI	LUR EADI	E Ly	$\cap F$	SEC	וחי	תמ	יידיד	AUS:	E C(	LOUI	DSS LD (	OF CAUS	SE	L	os	s ·	OF

ASSESSM ASSESSM NASA FM	ENT ENT EA	' I	ATE: D:	2/03 MECH 05-6	/88 /KE EH-	D- 56	450 060	8 -6					IASA DA BASELI N		[			
SUBSYSTI MDAC ID ITEM:	EM:			MECH, 4508 +28V												-	-	
LEAD AND	ALY	ST	:	A.D.	MO	NT	GOMI	ERY										
ASSESSMI	ENT	:																
	CR	IT: F:	ICAL LIGH	ITY T		R	EDUI	NDAN	CY	SCI	REEN	S			CI			
	]			NC		A			В			С			II	EN	1	
NASA IOA	[ [	2	/1R /2R	]	[	P P	]	[	N# F	<b>A</b> ]	[	P P	]		[	X X	]	*
COMPARE	[	N	/N	]	[		]	(	N	]	[		]		[		]	
RECOMMEN	DA'	CIC	ons:	(If	đ	Ĺf	fere	nt 1	rc	m N	ASA)	)						
	[	3	/1R	]	[	P	]	£	F	]	[	P		(AD	[ D/			TE)
* CIL RE	TEN	ΙΤΙ	ON F	NOITAS	ALF	:	(If	app	li	cab	le)							
REMARKS:												IAL	EQUATE EQUATE		[ [		] ]	
A SINGLE VEHICLE/ LIFE/VEH REDUNDAN	ICL	E.	.ON. NO	FAIL! REA!!	URE DII		)FS	をとして	ח	TOP	M 00	TTT	D 03110	E I	LO: SS	ss o	O: F	F

ASSESSMENT DATE: ASSESSMENT ID: NASA FMEA #:	05-6EH-5606	0-6	NASA DATA: BASELINE [ ] NEW [ X ]			
SUBSYSTEM: MDAC ID: ITEM:	MECH/KBD/EP 4510 +28V CONTAC	T #2				
LEAD ANALYST:	A.D. MONTGO	MERY				
ASSESSMENT:	DE	DUNDANCY SCREEN	ıs	CIL		
CRITICA FLIGH HDW/F	HT _	В	С	ITEM		
NASA [ 2 /1] IOA [ 3 /2	R ] [ P	] [ NA] ] [ F ]	[ P ] [ P ]	[ X ] *		
COMPARE [ N /N	, j	] [N]	[ ]	[ ]		
RECOMMENDATIONS	: (If dif	ferent from NAS				
	LR ] [ P	] [F]	[ P ]	[ A ] ADD/DELETE)		
* CIL RETENTION RATIONALE: (If applicable)  ADEQUATE [ ]  INADEQUATE [ ]						
REMARKS: A SINGLE SWITCH POLE SHORT WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF SECOND ITEM COULD CAUSE LOSS OF LIFE/VEHICLE. NO "READILY APPARENT" INDICATION OF LOSS OF REDUNDANT HARDWARE FOUND.						

	MENT DATE: MENT ID: MEA #:	MECH/K	8 BD-4512 -56060-	6	NASA DA	INE [ ]
SUBSYST MDAC ID ITEM:	TEM: ):	4512	BD/EPD&		ı	vew [x]
LEAD AN	ALYST:	A.D. MO	NTGOMER	RY		
ASSESSM	ENT:					
	CRITICALI FLIGHT		REDUND	ANCY SCR	EENS	CIL
	HDW/FUN		A	В	С	ITEM
nasa Ioa	[ 2 /1R [ 3 /2R	) [	P ] P ]	[ NA] [ F ]	[ P ] [ P ]	[ X ] *
COMPARE	[ N /N ]	[	1	[и]	[ ]	( x j
RECOMMENDATIONS: (If different from NASA)						
	[ 3 /1R ]	•		[ F ]	[ P ]	[ A ]
* CIL RETENTION RATIONALE: (If applicable)						
REMARKS: A SINGLE VEHICLE (M	SWITCH POI	E SHORT	r would	NOT CALL	ADEQUATE INADEQUATE	į į
A SINGLE SWITCH POLE SHORT WOULD NOT CAUSE LOSS OF VEHICLE/MISSION. FAILURE OF SECOND ITEM COULD CAUSE LOSS OF LIFE/VEHICLE. NO "READILY APPARENT" INDICATION OF LOSS OF REDUNDANT HARDWARE FOUND.						

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SUBSYSTE MDAC ID: ITEM:	M:			MECH/ 4514 +28V																
LEAD ANA	LYS	ST:	:	A.D.	MON	TC	OM	ERY												
ASSESSME	NT:	:																		
	CR		CALI	LTY L		RI	EDU	NDA	N	CY	sc	REE	NS	5				L EN		
	I	HDW	/FUI	NC		A				В				С						
NASA IOA	[ [	2	/1R /2R	]	[ [	P P	]		]	N# F	]		[	P P	]		]	X X	]	*
COMPARE	[	N	/N	3	[		]		[	N	]		[		]		[		]	
RECOMMEN	IDA!	ric	ons:	(I	f d	if	fer	ent	: :	fro	om	NAS	A)	)						
	[	3	/1R	]	[	P	]		[	F	]		[	P	] (				) ELI	ETE)
* CIL RE	ETE	NT:	ION 1	RATIO	NAL	E:	(I	f a	p]	pl:	Lca	able		IA IAV	DEQUATE DEQUATE	E	]		]	
REMARKS: A SINGLE VEHICLE/ LIFE/VEH REDUNDAN	S S' MI:	SS: LE	ION. . N	FAI O "RE	LUR ADI	E (	OF	SEC	:0	ND	IJ	CEM	E	L	OSS OF LD CAUS	SΕ	L	oss	s (	OF

APPENDIX D

CRITICAL ITEMS

# APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
02-4-052000-1	1101	MOTOR	FAILS TO OPERATE
02-4-052000-4	1101	MOTOR	FAILS TO OPERATE
02-4-054000-1	1104	PRESSURE LINE	LEAKAGE
	1105	PROBE	JAMMED
	1106	PROBE	CLOGGED PORT
	1107	SHAFT	BROKEN
	1108	SHAFT	BENT
05-6EE-2002-1	1500	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1500	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1501	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1501	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1502	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1502	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1503	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1503	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1504	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1504	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1505	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1505	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1506	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1506	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1507	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2 05-6EE-2002-1	1507 1508	+28V CONTACT #4 +28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1508	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1508	+28V CONTACT #1 +28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1509	+28V CONTACT #1	FAILS OPEN FAILS OPEN
05-6EE-2002-1	1510	+28V CONTACT #2	FAILS OPEN FAILS SHORTED
05-6EE-2002-2	1510	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1511	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1511	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1512	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1512	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1513	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1513	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1514	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1514	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1515	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1515	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1516	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1516	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1517	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1517	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1518	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1518	+28V CONTACT #2	FAILS SHORTED

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
			FAILS OPEN
05-6EE-2002-1	1519	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1519	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1520	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1520	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1521	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1521	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1522	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1522	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1523	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1523	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1532	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1532	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1533	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1534	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1534	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1534	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1535	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1535	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1536	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1536	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1537	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1537	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1538	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1538	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1539	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1539	+28V CONTACT #4 +28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1540	· <del></del>	FAILS SHORTED
05-6EE-2002-2	1540	, <b>_</b>	FAILS OPEN
05-6EE-2002-1	1541	+28V CONTACT #1 +28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1541	+28V CONTACT #1 +28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1542	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1542	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1	1543	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-2	1543	+28V CONTACT #2 +28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1	1544	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-2	1544 1545	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1		+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2	1545	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1546	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1546 1547	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-1	1547	+28V CONTACT #4	FAILS OPEN
05-6EE-2002-2	1547	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-1	1548	+28V CONTACT #1	FAILS SHORTED
05-6EE-2002-2	1549	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-1	1549	+28V CONTACT #1	FAILS OPEN
05-6EE-2002-2	1550	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-1	1550	+28V CONTACT #2	FAILS SHORTED
05-6EE-2002-2	1551	+28V CONTACT #2	FAILS OPEN
05-6EE-2002-1 05-6EE-2002-2	1551	+28V CONTACT #2	FAILS OPEN
UD-0FF-5007-5	1001		

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
05 (PP 2000 1	1550		
05-6EE-2002-1	1552		FAILS SHORTED
05-6EE-2002-2 05-6EE-2002-1	1552	+28V CONTACT #3	FAILS SHORTED
05-6EE-2002-1 05-6EE-2002-2	1553	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-2 05-6EE-2002-1	1553	+28V CONTACT #3	FAILS OPEN
05-6EE-2002-1	1554	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-2	1554 1555	+28V CONTACT #4	FAILS SHORTED
05-6EE-2002-1	1555	+28V CONTACT #4	FAILS OPEN
05-6EE-2017-2	1588	+28V CONTACT #4	FAILS OPEN
05-6EE-2017-1	1589	AND GATE	FAILS SHORTED
05-6EE-2017-1	1599	AND GATE	FAILS OPEN
05-6EE-2017-1	1590	TIME DELAY TIME DELAY	FAILS SHORTED
05-6EE-2017-2	1591		FAILS OPEN
05-6EE-2017-1	1592	SOLID STATE DRIVER	FAILS SHORTED
05-6EE-2016-2	1594	SOLID STATE DRIVER	FAILS OPEN
05-6EE-2016-1	1595	REMOTE POWER CONTROLL REMOTE POWER CONTROLL	FAILS SHORTED
05-6EE-2016-2		REMOTE POWER CONTROLL	FAILS OPEN
05-6EE-2016-1		REMOTE POWER CONTROLL	FAILS SHORTED
05-6EE-2016-2		REMOTE POWER CONTROLL	FAILS OPEN
05-6EE-2016-1		REMOTE POWER CONTROLL	FAILS SHORTED
05-6EE-2015-2		SWITCH RELAY	
05-6EE-2015-2		LATCH RELAY	FAILS SHORTED
02-2D/4-E100-1		ROD ASSEMBLY	FAILS SHORTED
02-2D/4-E100-1	2101	ROD ASSEMBLY	PHYSICAL BINDING
02-2D/4-E100-1	2102	ROD ASSEMBLY BELLCRANK	PHYSICAL BINDING PHYSICAL BINDING
02-2D/4-E100-1	2103	BELLCRANK	PHYSICAL BINDING PHYSICAL BINDING
02-2D/4-E100-1	2104	BOLT	PHYSICAL BINDING PHYSICAL BINDING
02-2D/4-E100-1	2105	BOLT	PHYSICAL BINDING
02-4D-014600-1	3101	CENTERLINE LATCH MOTO	FAILS TO START
02-4D-014600-1	3103	CENTERLINE MOTOR CLUT	FAILS TO DISENGAG
02-4D-014600-1 02-4D-014600-3 02-4D-014600-1 02-4D-014000-3	3104	CENTERLINE MOTOR BRAK	FAILS TO ENGAGE
02-4D-014600-1	3105	CENTERLINE MOTOR BRAK	FAILS TO DISENGAG
02-4D-014000-3	3106	CENTERLINE LATCH DIFF	PHYSICAL BINDING
02-40-014600-1	3107	CENTERLINE LATCH DIFF	PARTIAL OUTPUT
02-4D-014000-1	3108	CENTERLINE LATCH	PHYSICAL BINDING
02-4D-14700-2	3109	CENTERLINE LATCH LIMI	PREMATURE OPER
02-4D-012600-1	3111	DOOR CLOSURE MOTOR	FAILS TO START
02-4D-012600-1	3113	DOOR CLOSURE MOTOR CL	FAILS TO DISENGAG
02-4D-012600-3	3114	DOOR CLOSURE MOTOR BR	FAILS TO ENGAGE
02-4D-012600-1	3115	DOOR CLOSURE MOTOR BR	FAILS TO DISENGAG
02-4D-012000-1	3116	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-012600-5	3116	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-013600-5	3116	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-012600-1	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-012600-4	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-013600-4	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-013600-5	3117	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-012100-1	3119	DOOR LINKAGE ASSEMBLY	LINKAGE BROKEN
02-4D-012100-2	3120	HINGE LINKAGE ASSEMBL	PHYSICAL BINDING
02-4D-012100-1	3121	HINGE LINKAGE ASSEMBL	LINKAGE BROKEN

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
NADA IIIDI		# # - <del></del>	
02-4D-012100-2	3122	DOOR CLOSURE TORQUE T	PHYSICAL BINDING
02-4D-012100-1	3123	DOOR CLOSURE TORQUE T	TORQUE TUBE BROKE
02-4D-012700-2	3124	DOOR CLOSURE LIMIT SW	PREMATURE OPER PHYSICAL BINDING
02-4D-012100-2	3126	DOOR HINGE	PHYSICAL BINDING
02-4D-012100-1	3127	DOOR HINGE	STRUCTURAL FAILUR BROKEN OFF DOOR
02-4D-013300-2	3128	DOOR UPLATCH ROLLER	DAMAGED ON ASCENT
02-4D-013300-2	3129	UMBILICAL DOOR	FAILS TO START
02-4D-013600-1	3130	UPLOCK LATCH MOTOR	FAILS TO START
02-4D-013600-5	3131	UPLATCH MOTOR CLUTCH	FAILS TO ENGAGE
02-4D-013600-1	3132	UPLATCH MOTOR CLUTCH	FAILS TO DISENGAG
02-4D-013600-5	3132	UPLATCH MOTOR CLUTCH	FAILS TO DISENGAGE
02-4D-013600-3	3133	UPLATCH MOTOR BRAKE	FAILS TO DISENGAG
02-4D-013600-1	3134	UPLATCH MOTOR BRAKE	PHYSICAL BINDING
02-4D-012600-5	3135	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-013000-1	3135	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-012600-5	3136	TORQUE LIMIT CLUTCH/D	PARTIAL OUTPUT
02-4D-013600-1	3136	TORQUE LIMIT CLUTCH/D	PHYSICAL BINDING
02-4D-013300-1	3137	UPLATCH TORQUE TUBE A	TORQUE TUBE BROKE
02-4D-013300-2	3138	UPLATCH TORQUE TUBE A	PHYSICAL BINDING
02-4D-013300-1	3139	INBOARD UPLOCK LATCH	BROKEN/UNATTACHED
02-4D-013300-2	3140	INBOARD UPLOCK LATCH	PHYSICAL BINDING
02-4D-013300-1	3141	UPLOCK LATCH MECHANIS	BROKEN/UNATTACHED
02-4D-013300-2	3142	UPLOCK LATCH MECHANIS	PREMATURE OPER
02-4D-013700-2	3143	READY TO LATCH LIMIT	FAILS TO CLOSE
05-6ED-2126-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2127-1	3501	RELAY	FAILS TO CLOSE
05-6ED-2127-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2129-1	3501	RELAY	FAILS TO CLOSE
05-6ED-2130-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2131-1	3501	RELAY	FAILS TO CLOSE
05-6ED-2131-2	3501	RELAY	FAILS TO CLOSE
05-6ED-2132-2	3501	RELAY RELAY	FAILS TO OPEN
05-6ED-2127-1	3502	RELAY	FAILS TO OPEN
05-6ED-2127-2	3502	RELAY	FAILS TO CLOSE
05-6ED-2126-2	3503 3503	RELAY	FAILS TO CLOSE
05-6ED-2129-1	3503 3503	RELAY	FAILS TO CLOSE
05-6ED-2130-2	3503 3503	RELAY	FAILS TO CLOSE
05-6ED-2131-1	3503	RELAY	FAILS TO CLOSE
05-6ED-2131-2	3503	RELAY	FAILS TO CLOSE
05-6ED-2132-2	3505	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-3	3505	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-4	3506	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-3	3506	ET UMBILICAL DOOR MOD	FAILS TO SWITCH
05-6ED-2026-4 05-6ED-2027-2	3507	CENTELRINE LATCH-STOW	FAILS TO SWITCH
05-6ED-2027-2 05-6ED-2027-3	3507	CENTELRINE LATCH-STOW	FAILS TO SWITCH
05-6ED-2027-2	3508	CENTELRINE LATCH-STOW	FAILS TO SWITCH FAILS TO SWITCH
05-6ED-2027-3	3508	CENTELRINE LATCH-STOW	FAILS TO SWITCH
05-6ED-2028-3	3509	ET UMBILICAL DOOR OPE	FAILS TO SWITCH
05-6ED-2030-3	3509	ET UMBILICAL DOOR OPE	FAILS TO SWITCH
05-6ED-2028-3	3510	ET UMBILICAL DOOR OPE	TAILS TO SWITCH

NASA FMEA	MDAC-ID	Torne	
		ITEM	FAILURE MODE
05-6ED-2030-3	3510	ET UMBILICAL DOOR OPE	73.77.6 Page 100
05-6ED-2250-1	3522	Children Dook Ope	
05-6ED-2251A-1	3522		OPEN CIRCUIT
05-6ED-2251A-2	3522		OPEN CIRCUIT
05-6ED-2251B-2	3522		OPEN CIRCUIT
05-6ED-2252-2	3522		OPEN CIRCUIT
05-6ED-2252B-2	3522		OPEN CIRCUIT
05-6ED-2257-2	3522	DIODE	OPEN CIRCUIT
05-6ED-2251A-1	3523	DIODE	OPEN CIRCUIT
05-6ED-2251A-2	3523	DIODE	SHORTED OUT
05-6ED-2251B-2	3523	DIODE	SHORTED OUT
05-6ED-2252-2	3523	DIODE	SHORTED OUT
05-6ED-2252B-2		DIODE	SHORTED OUT
05-6ED-2252C-2	3523	DIODE	SHORTED OUT
05-6ED-2255-2	3523	DIODE	SHORTED OUT
05-6ED-2257-2	3523	DIODE	SHORTED OUT
05-6ED-2257A-2		DIODE	SHORTED OUT
05-6EH-56060-6		+28V CONTACT #1	SHORTED OUT FAILS SHORTED
05-6EH-56060-1		+28V CONTACT #1	FAILS SHORTED
05-6EH-56060-3		+28V CONTACT #1	FAILS OPEN
05-6EH-56060-6		+28V CONTACT #2	FAILS SHORTED
05-6EH-56060-1	<del>-</del>	+28V CONTACT #2	FAILS OPEN
05-6EH-56060-3		+28V CONTACT #2	FAILS OPEN
05-6EH-56060-6		+28V CONTACT #3	FAILS SHORTED
05-6EH-56060-1 05-6EH-56060-3	4505	+28V CONTACT #3	FAILS OPEN
05-6EH-56060-6	4505	+28V CONTACT #3	FAILS OPEN
05-6EH-56060-1	4506	+28V CONTACT #4	FAILS SHORTED
05-6EH-56060-3	4507 4507	+28V CONTACT #4	FAILS OPEN
05-6EH-56060-6	4507 4508	+28V CONTACT #4	FAILS OPEN
05-6EH-56060-1	4508 4509	+28V CONTACT #1	FAILS SHORTED
	4509	+28V CONTACT #1	FAILS OPEN
05-6EH-56060-3 05-6EH-56060-6	4509	+28V CONTACT #1	FAILS OPEN
05-6EH-56060-1	4511	+28V CONTACT #2	FAILS SHORTED
05-6EH-56060-3	4511	+28V CONTACT #2 +28V CONTACT #2	FAILS OPEN
05-6EH-56060-6	4512	+28V CONTACT #2	FAILS OPEN
05-6EH-56060-1	4513	+28V CONTACT #3	FAILS SHORTED
05-6EH-56060-3	4513	+28V CONTACT #3	FAILS OPEN
05-6EH-56060-6	4514	+28V CONTACT #4	FAILS OPEN
05-6EH-56060-1	4515	+28V CONTACT #4	FAILS SHORTED
05-6EH-56060-3	4515	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-4	4516	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-1	4517	+28V CONTACT #1	FAILS SHORTED
05-6EH-56000-3	4517	+28V CONTACT #1	FAILS OPEN FAILS OPEN
05-6EH-56000-4	4518	+28V CONTACT #2	FAILS OPEN FAILS SHORTED
05-6EH-56000-1	4519	+28V CONTACT #2	FAILS SHORTED
05-6EH-56000-3	4519	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-4	4520	+28V CONTACT #3	FAILS SHORTED
05-6EH-56000-1	4521	+28V CONTACT #3	FAILS OPEN
			V4 MAT

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
			FAILS OPEN
05-6EH-56000-3	4521	+28V CONTACT #3	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4522	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-1	4523	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-3	4523	+28V CONTACT #4	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4524	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-1	4525	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-3	4525	+28V CONTACT #1	FAILS SHORTED
05-6EH-56000-4	4526	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-1	4527	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-3	4527	+28V CONTACT #2	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4528	+28V CONTACT #3	
05-6EH-56000-1	4529	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-3	4529	+28V CONTACT #3	FAILS OPEN FAILS SHORTED
05-6EH-56000-4	4530	+28V CONTACT #4	
05-6EH-56000-1	4531	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-3	4531	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-4	4532	+28V CONTACT #1	FAILS SHORTED
05-6EH-56000-1	4533	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-3	4533	+28V CONTACT #1	FAILS OPEN
05-6EH-56000-4	4534	+28V CONTACT #2	FAILS SHORTED
05-6EH-56000-1	4535	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-3	4535	+28V CONTACT #2	FAILS OPEN
05-6EH-56000-4	4536	+28V CONTACT #3	FAILS SHORTED
05-6EH-56000-1	4537	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-3	4537	+28V CONTACT #3	FAILS OPEN
05-6EH-56000-4	4538	+28V CONTACT #4	FAILS SHORTED
05-6EH-56000-1	4539	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-3	4539	+28V CONTACT #4	FAILS OPEN
05-6EH-56000-1	4540	TALKBACK	FAILS TO DEPLOY
05-6EH-56000-3	4540	TALKBACK	FAILS TO DEPLOY
05-6EH-56000-1	4541	TALKBACK	FAILS TO BARBERPO
05-6EH-56000-3	4541	TALKBACK	FAILS TO BARBERPO
05-6EH-56000-1	4542	TALKBACK	FAILS TO STOW
05-6EH-56000-3	4542	TALKBACK	FAILS TO STOW
05-6EH-56021-2	4545	AND GATE #2	FAILS SHORTED
05-6EH-56020-2	4547	AND GATE #1	FAILS SHORTED
05-6EH-56020-2	4549	AND GATE #2	FAILS SHORTED
05-6EH-56021-2	4551	AMP #1	FAILS SHORTED
05-6EH-56021-2	4553	AMP #2	FAILS SHORTED
05-6EH-56020-2	4555	AMP #1	FAILS SHORTED
05-6EH-56020-2	4557	AMP #2	FAILS SHORTED
05-6EH-56021-2	4559	K14	FAILS SHORTED
05-6EH-56021-2	4561	K68	FAILS SHORTED
05-6EH-56020-2	4563	K72	FAILS SHORTED
05-6EH-56020-2	4565	K70	FAILS SHORTED
05-6EH-56021-2	4567	STOW MICROSWITCH #1	FAILS SHORTED
05-6EH-56020-2	4569	DEPLOY MICROSWITCH #1	FAILS SHORTED
05-6EH-56021-2	4571	AND GATE #1	FAILS SHORTED
05-6EH-56021-2	4573	AND GATE #2	FAILS SHORTED

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
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05-6EH-56020-2	4575	AND GATE #1	FAILS SHORTED
05-6EH-56020-2	4577	AND GATE #2	FAILS SHORTED
05-6EH-56021-2	4579	AMP #1	FAILS SHORTED
05-6EH-56021-2	4581	AMP #2	FAILS SHORTED
05-6EH-56020-2	4583	AMP #1	FAILS SHORTED
05-6EH-56020-2	4585	AMP #2	FAILS SHORTED
05-6EH-56021-2	4587	K25	FAILS SHORTED
05-6EH-56021-2	4589	K2	FAILS SHORTED
05-6EH-56020-2	4592	K27	FAILS SHORTED
05-6EH-56020-2	4594	K37	FAILS SHORTED
05-6EH-56021-2	4596	STOW MICROSWITCH #2	FAILS SHORTED
05-6EH-56020-2	4598	DEPLOY MICROSWITCH #2	FAILS SHORTED
02-4B-001-2	5101	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-3	5101	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-005-1	5101	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-1	5102	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-101-1	5102	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-001-1	5104	CENTERLINE/BULKHEAD L	FAILS TO DISENGAG
02-4B-002-1	5104	CENTERLINE/BULKHEAD L	FAILS TO DISENGAG
02-4B-005-4	5105	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-005-6	5105	CENTERLINE/BULKHEAD L	FAILS TO ENGAGE
02-4B-001-1	5106	CENTERLINE/BULKHEAD L	SLIPS
02-4B-002-1	5106	CENTERLINE/BULKHEAD L	SLIPS
02-4B-001-2	5107	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-1	5107	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-002-3 02-4B-001-1	5107	CENTERLINE/BULKHEAD L	LOSS OF OUTPUT
02-4B-001-1 02-4B-001-2	5108 5108	CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-001-2 02-4B-002-1	5108	CENTERLINE/BULKHEAD L CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-002-3	5108	CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-002-1	5109	CENTERLINE/BULKHEAD L	PARTIAL OUTPUT
02-4B-006-4	5109	CENTERLINE/BULKHEAD L	PHYSICAL BINDING PHYSICAL BINDING
02-4B-002-1	5110	CENTERLINE/BULKHEAD T	FAILS TO OPERATE
02-4B-006-2	5111	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-1	5111	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-3	5111	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-2	5112	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-007-4	5112	CENTERLINE/BULKHEAD T	FAILS OUT OF TOL
02-4B-001-2	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-002-1	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-002-3	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-006-5	5113	CENTERLINE/BULKHEAD G	FAILS TO TRANSFER
02-4B-002-1	5114	CENTERLINE/BULKHEAD G	PHYSICAL BINDING
02-4B-001-2	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-002-1	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-002-3	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-006-5	5115	CENTERLINE/BULKHEAD G	PARTIAL OUTPUT
02-4B-003-2	5119	CENTERLINE/BULKHEAD C	PREMATURE OPER
02-4B-112-1	5120	CENTERLINE LATCH GANG	BROKEN

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
		and and	PHYSICAL BINDING
02-4B-002-1	5121	CENTERLINE LATCH GANG	PHYSICAL BINDING
02-4B-002-1	5122	CENTERLINE LATCH ASSE	PHYSICAL BINDING
02-4B-006-1	5122	CENTERLINE LATCH ASSE	BROKEN COMPONENT
02-4B-113-1	5123	CENTERLINE LATCH ASSE	BROKEN COMPONENT
02-4B-113-2	5123	CENTERLINE LATCH ASSE	BROKEN COMPONENT
02-4B-114-1	5123	CENTERLINE LATCH ASSE	LATCH HOOK FAILS
02-4B-113-1	5124	CENTERLINE LATCH ASSE	PHYSICAL BINDING
02-4B-110-1	5125	CENTERLINE LATCH ROLL	BROKEN
02-4B-110-1	5126	CENTERLINE LATCH ROLL	FAILS TO ENGAGE
02-4B-403-1	5127	PBD SHEAR FITTING ROL	BROKEN
02-4B-403-1	5128	PBD SHEAR FITTING ROL	BROKEN
02-4B-403-2	5128	PBD SHEAR FITTING ROL	PHYSICAL BINDING
02-4B-403-1	5129	PBD SHEAR FITTING ROL	FAILS TO ENGAGE
02-4B-403-1	5130	PBD SHEAR FITTING CLA PBD SHEAR FITTING CLA	BROKEN
02-4B-403-1	5131	PBD SHEAR FITTING CLA	BROKEN
02-4B-403-2	5131	PBD SHEAR FITTING CLA	BENT
02-4B-403-1	5132	BULKHEAD LATCH GANG B	PHYSICAL BINDING
02-4B-001-1	5133	BULKHEAD LATCH GANG B	BROKEN
02-4B-106-1	5134	BULKHEAD PUSH-PULL RO	PHYSICAL BINDING
02-4B-001-1	5135	BULKHEAD PUSH-PULL RO	BROKEN
02-4B-099-1	5136	BULKHEAD LATCH LINKAG	PHYSICAL BINDING
02-4B-001-1	5137	BULKHEAD LATCH LINKAG	BROKEN
02-4B-008-1	5138	BULKHEAD LATCH LINKAG	BROKEN
02-4B-008-2	5138	BULKHEAD LATCH LINKAG	BROKEN
02-4B-107-1	5138	BULKHEAD LATCH LINKAG	BROKEN
02-4B-108-1	5138	BULKHEAD LATCH LINKAG	FAILS TO LATCH
02-4B-008-1	5139	BULKHEAD ROLLER ASSEM	PHYSICAL BINDING
02-4B-001-1	5140	BULKHEAD READY-TO-LAT	PREMATURE OPER
02-4B-140-2	5145	PAYLOAD BAY DOOR DRIV	LOSS OF OUTPUT
02-4B-203-1	5146	TOTAL TOTAL	FAILS TO ENGAGE
02-4B-203-1	5147	DOOD DDTV	FAILS TO DISENGAGE
02-4B-203-1	5149 5150	PAYLOAD BAY DOOR DRIV	FAILS TO ENGAGE
02-4B-203-2	5150	PAYLOAD BAY DOOR DRIV	SLIPS
02-4B-203-1	5151 5152	PAYLOAD BAY DOOR DRIV	LOSS OF OUTPUT
02-4B-203-1	5152 5153	PAYLOAD BAY DOOR DRIV	PARTIAL OUTPUT
02-4B-203-1	5154	PAYLOAD BAY DOOR DRIV	PHYSICAL BINDING
02-4B-202-1	5155	PAYLOAD BAY DOOR DRIV	FAILS TO OPERATE
02-4B-204-2	5156	PAYLOAD BAY DOOR DRIV	PHYSICAL BINDING
02-4B-202-1	5157	PAYLOAD BAY DOOR DRIV	PARTIAL OUTPUT
02-4B-202-2	5157	PAYLOAD BAY DOOR DRIV	PARTIAL OUTPUT
02-4B-204-2	5158	PAYLOAD BAY DOOR DRIV	BROKEN
02-4B-200-1	5159	PAYLOAD BAY DOOR DRIV	SEIZED BEARING
02-4B-201-1	5161	PAYLOAD BAY DOOR DRIV	BROKEN SUPPORT
02-4B-200-1	5162	PAYLOAD BAY DOOR DRIV	FAILS OUT OF TOL
02-4B-202-2	5162	PAYLOAD BAY DOOR DRIV	FAILS OUT OF TOL
02-4B-207-1	5163	PAYLOAD BAY DOOR DRIV	FAILS OUT OF TOL
02-4B-207-2 02-4B-204-1	5164	PAYLOAD BAY DOOR DRIV	TORQUE LIMITER
02-4B-204-1 02-4B-204-1	5165	PAYLOAD BAY DOOR DRIV	JAMMED ROTARY ACT
UZ-4D-2U4-1	310		

NASA FMEA	MDAC-II	) ITEM	FAILURE MODE
02-4B-209-2	5166	Dauroan man	
02-4B-204-1	5166	THE TOUR DICT A	
02-4B-209-1	5167		BROKEN MOUNTING
02-4B-209-2	5169	PAYLOAD BAY DOOR DRIV	PHYSICAL BINDING
02-4B-109-1	5176	PAYLOAD BAY DOOR DRIV	BROKEN
02-4B-206-1	5179	PAYLOAD BAY DOOR ALIG	PHYSICAL BINDING
05-6EB-2000-1	5502	PAYLOAD BAY DOOR SHEA	PHYSICAL BINDING
05-6EB-2001-1		CONTROL BUS 1.2K RESI	OPEN CIRCUIT
05-6EB-2001-2		PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2010-1		PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2010-2	5504	PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2011-1	5504 5505	PAYLOAD BAY DOORS CON	FAILS TO SWITCH
05-6EB-2004-1	5505 5507	FUSE, 1A	OPEN (ELECTRICAL)
05-6EB-2004-2	5507	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2005-1	5507	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2005-2	5507 5507	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2004-2	5508	MAIN DC BUS RELAY	FAILS TO CLOSE
05-6EB-2005-1	5508 5508	MAIN DC BUS RELAY	FAILS TO OPEN
05-6EB-2005-2	5508	MAIN DC BUS RELAY	FAILS TO OPEN
02-4G-179-2	6103	MAIN DC BUS RELAY MOTOR BRAKE	FAILS TO OPEN
02-4G-183-2	6104	MODOUE LINE	PHYSICAL BINDING
02-4G-180-1	6107	TORQUE LIMITER GEARBOX	FAILS OUT OF TOL
02-4G-180-2	6108	GEARBOX	PHYSICAL BINDING
02-4G-181-1	6111		STRUCTURAL FAILURE
02-4G-176-1	6113	LATCH TORQUE SHAFT AS	PHYSICAL BINDIND
02-4G-153-1	6201	LATCH HOOK MECHANISM MOTOR	FAILS TO RELEASE
02-4G-153-2	6203	MOTOR BRAKE	LOSS OF OUTPUT
02-4G-155-2	6204	TORQUE LIMITER	PHYSICAL BINDING
02-4G-155-1	6205	TORQUE LIMITER	FAILS OUT OF TOL
02-4G-154-2	6207	GEARBOX	FAILS OUT OF TOL
02-4G-154-3	6208	GEARBOX	PHYSICAL BINDING
02-4G-151-2	6211	DEPLOYMENT TORQUE SHA	STRUCTURAL FAILURE
02-4G-158-1	6211	DEPLOYMENT TORQUE SHA	=
02-4G-151-2	6212	DEPLOYMENT ROTARY ACT	PHYSICAL BINDING
02-4G-151-3	6212	DEPLOYMENT ROTARY ACT	STRUCTURAL FAILURE
02-4G-156-1	6301	HINGE FITTINGS/POINTS	STRUCTURAL FAILURE
02-4G-156-2	6302	HINGE FITTINGS/POINTS	PHYSICAL BINDING
02-4G-186-1	6302	HINGE FITTINGS/POINTS	STRUCTURAL FAILURE
05-65G-2001-01	6501	LATCH CONTROL SWITCH	STRUCTURAL FAILURE
05-65G-2001-01	6502	LATCH CONTROL SWITCH	FAILS TO RELEASE
05-65G-2001-01	6503	LATCH CONTROL SWITCH	FAILS IN RELEASE
05-65G-2001-01	6504	LATCH CONTROL SWITCH	FAILS TO LATCH
05-6EG-2010-1	6507	RADIATOR CONTROL SWIT	FAILS IN LATCH
05-6EG-2010-1	6508	RADIATOR CONTROL SWIT	FAILS TO DEPLOY
05-6EG-2010-1	6509	RADIATOR CONTROL SWIT	FAILS IN DEPLOY
05-6EG-2010-3	6509	RADIATOR CONTROL SWIT	FAILS TO STOW
05-6EG-2010-1	6510	RADIATOR CONTROL SWIT	FAILS TO STOW
05-6EG-2010-3	6510	RADIATOR CONTROL SWIT	FAILS IN STOW
02-4A-593309-1	7100	PRESSURE PORT	FAILS IN STOW
			CLOGGED

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
	7101	PRESSURE PORT	LEAKAGE
02-4A-593309-1	7101	O RING	LEAKAGE
02-4A-593302-2	7102	O RING	CRACKED
02-4A-593302-2	7103	ACTUATOR	BROKEN GEAR
02-4A-593302-1	7106	ACTUATOR	BROKEN SHAFT
02-4A-593302-1	7107	ACTUATOR	JAMMED
02-4A-593302-1	7108 7109	ACTUATOR	BROKEN GEAR
02-4A-593202-1	7110	ACTUATOR	BROKEN SHAFT
02-4A-593202-1	7111	ACTUATOR	JAMMED
02-4A-593202-1	7112	O RING	CRACKED
02-4A-593202-3	7112	O RING	LEAKAGE
02-4A-593202-3	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380102-1 01-5B-380103-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380103-1 01-5B-380108-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380108-1 01-5B-380110-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380110-1 01-5B-380116-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380118-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380120-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380126-1	8100	ROD ASSEMBLY	PHYSICAL BINDING
01-5B-380125-1 01-5B-380105-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380103-1 01-5B-380108-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380103 1 01-5B-380111-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380111 1 01-5B-380113-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380119-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380127-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380129-1	8101	BELLCRANK	PHYSICAL BINDING
01-5B-380101-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380104-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380109-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380112-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380117-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380125-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380128-1	8102	BOLT/BRACKET/DOUBLER	PHYSICAL BINDING
01-5B-380104-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380105-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380106-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380106-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380107-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380112-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380113-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380114-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380114-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING PHYSICAL BINDING
01-5B-380115-2	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380115-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380122-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380122-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380123-2	8103	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380123-3	8103	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380128-1	8103	IMPUI/OUTFUL TORQUE S	

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
01_ED2001201	0100		
01-5B-380130-1	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380130-3	8103	INPUT/OUTPUT TORQUE S	PHYSICAL BINDING
01-5B-380104-1 01-5B-380105-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380103-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380107-2	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380107-3	8104 8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380112-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380114-1	8104	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380114-3	8104	· · · · · · · · · · · · · · · · · · ·	FAILS TO START
01-5B-380115-2	8104		FAILS TO START
01-5B-380115-3	8104		FAILS TO START
01-5B-380122-1	8104	INPUT/OUTPUT TORQUE S INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380122-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START FAILS TO START
01-5B-380123-2	8104	INPUT/OUTPUT TORQUE S	
01-5B-380123-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START FAILS TO START
01-5B-380128-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380130-1	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380130-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380131-2	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380131-3	8104	INPUT/OUTPUT TORQUE S	FAILS TO START
01-5B-380107-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380115-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380123-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380131-1	8105	DIFFERENTIAL/GEAR TRA	PHYSICAL BINDING
01-5B-380115-1	8106	DIFFERENTIAL/GEAR TRA	FAILS TO REMAIN
01-5B-380123-1	8106	DIFFERENTIAL/GEAR TRA	FAILS TO REMAIN
01-5B-380131-1	8106	DIFFERENTIAL/GEAR TRA	FAILS TO REMAIN
05-6AB-2026A-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2027-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2028	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2029-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2030A-2	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2031A	8107	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2026A-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2027-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2028	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2029-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2030A-2	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2031A	8108	MICROSWITCH POSITION	FAILS TO REMAIN
05-6AB-2026A-2	8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2027-2 05-6AB-2028	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2029-2	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2029-2 05-6AB-2030A-2	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2030A-2	8502 8502	ACTUATOR SWITCH MODUL	OPEN (ELECTRICAL)
05-6AB-2031A 05-6AB-2126-2	8502 8503	ACTUATOR SWITCH MODUL MCA AC POWER RELAY	OPEN (ELECTRICAL)
05-6AB-2128-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2129-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
	000	HOA NO FOWER RELAI	PARTIAL OUTPUT

	MDAC-ID	ITEM	FAILURE MODE
NASA FMEA	MDAC-ID		
			OTTO
0120-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2130-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT PARTIAL OUTPUT
05-6AB-2130-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2133-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT PARTIAL OUTPUT
05-6AB-2134-2	8503	MCA AC POWER RELAY	PARTIAL OUTPUT
05-6AB-2135-1	8503	MCA AC POWER RELAY	PARTIAL OUIFUI
05-6AB-2138-1	8503	MCA AC POWER RELAY	PARTIAL OUTPUT PARTIAL OUTPUT
05-6AB-2139-2	8503	MCA AC POWER RELAY	OPEN (ELECTRICAL)
05-6AB-2177-1	8507	MCA DIODE	OPEN (ELECTRICIE)
05-6AB-2252-1	8508	MCA DIODE	SHORTED DELAYED OPERATION
05-6AB-2252-1	8511	MODULATOR/DEMODULATOR	DELAYED OPERATION
05-6AB-2201-2	8511	MODULATOR/DEMODULATOR	DELAYED OPERATION
05-6AB-2202-2	8511	MODILATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2204-2	8512	MODULATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2201-2	8512	MODULATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2202-2 05-6AB-2204-2	8512	MODULATOR/DEMODULATOR	INADVERTENT OPERA
05-6AB-2201-2	8513	GPC SOFTWARE	INADVERTENT OPERA
05-6AB-2202-2	8513	GPC SOFTWARE	INADVERTENT OPERA
05-6AB-2204-2	8513	GPC SOFTWARE	DELAYED OPERATION
05-6AB-2201-2	8517	GPC SOFTWARE	DELAYED OPERATION
05-6AB-2202-2	8517	GPC SOFTWARE	DELAYED OPERATION
05-6AB-2204-2	8517	GPC SOFTWARE	PHYSICAL BINDING
03-6AB-2204-2 02-4F-032001-1	9100	INPUT/OUTPUT SHAFT -	PHYSICAL BINDING
02-4F-032001-3	9100	INPUT/OUTPUT SHAFT -	PHYSICAL BINDING
02-4F-032001-5	9100	INPUT/OUTPUT SHAFT -	FAILS TO START
02-4F-032001-3	9101	INPUT/OUTPUT SHAFT -	FAILS TO START
02-4F-032001-4	9101	INPUT/OUTPUT SHAFT -	FAILS TO REMAIN
05-6EF-2003-1	9500	CIRCUIT BREAKER/SWITC	FAILS TO REMAIN
05-6EF-2003-2	9500	CIRCUIT BREAKER/SWITC	OPEN (ELECTRICAL)
05-6EE-2001-1	11700	FUSE (1A) MOTOR POWER	SHORT (ELECTRICAL
05-6EE-2008-2	11704	DIODE	OPEN (ELECTRICAL)
05-6EE-2009-2	11706	DIODE	OPEN (ELECTRICAL)
05-6EE-2012-1	11707	DIODE	SHORT (ELECTRICAL
05-6EE-2012-2	11708	DIODE DIODE (DEPLOY CONTROL	SHORTED
05-6EH-56004-2	14688	DIODE (STOW ENABLE CI	SHORTED
05-6EH-56007-2	14689	RESISTOR (STOW SIGNAL	OPEN (ELECTRICAL)
05-6EH-56010-1	14690	RESISTOR (STOW SIGNAL	SHORTED
05-6EH-56010-2	14691	RESISTOR (STOW ENABLE	OPEN (ELECTRICAL)
05-6EH-56011-1	14692	RESISTOR (STOW ENABLE	SHORTED
05-6EH-56011-2	14693	DIODE (DEPLOY POS. IN	SHORTED
05-6EH-56051-2	14694	DIODE (DEPLOYED/XMIT	OPEN (ELECTRICAL)
05-6EH-56054-1	14695	DIODE (DEPLOYED/XMIT	SHORTED
05-6EH-56054-2	14696	RUSE (DEPLOY/XMIT SCA	OPEN (ELECTRICAL)
05-6EH-56055-1	14697 14698	DIODE (STOW INITIATE)	OPEN (ELECTRICAL)
05-6EH-56056-1		FUSE (STOW INITIATE)	OPEN (ELECTRICAL)
05-6EH-56057-1	16511	BEARING, TORQUE SHAFT	FAILS TO ROTATE
02-4G-157-1	16512	SWITCH MODULE, LIMIT,	SHORTS, PREMATURE
02-4G-301-2	16512	TY	PHYSICAL BINDING
02-4G-152-1	10010		

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
02-4G-184-1 05-6EG-2009-1 05-6EG-2017-1 02-4A-593201-1 02-4A-593205-2 02-4A-593301-2 02-4A-593301-1	16514 16515 16516 17121 17122 17123 17124 17125	ROLLER ASSEMBLY LATCH FUSE, 1A MID MCA 1, 2, 3, 4 SIDE HATCH LATCH MECH SIDE HATCH HINGE SIDE HATCH ATTENUATOR AIRLOCK HATCH LATCH M AIRLOCK HATCH LATCH M	FAILS TO ENGAGE FAIL OPEN FAILS TO TRANSFER FAILS TO DISENGAG PHYSICAL BINDING PHYSICAL BINDING FAILS TO ENGAGE FAILS TO DISENGAG

#### APPENDIX E DETAILED ANALYSIS

This appendix contains the IOA analysis worksheets supplementing previous results reported in STSEOS Working Paper 1.0-WP-VA87001-03, Analysis of the Mechanical Actuation System, (30 November 1987). Prior results were obtained independently and documented before starting the FMEA/CIL assessment activity. Supplemental analysis was performed to address failure modes not previously considered by the IOA. Each sheet identifies the hardware item being analyzed, parent assembly and function performed. For each failure mode possible causes are identified, and hardware and functional criticality for each mission phase are determined as described in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986. Failure mode effects are described at the bottom of each sheet and worst case criticality is identified at the top.

# LEGEND FOR IOA ANALYSIS WORKSHEETS

### Hardware Criticalities:

- 1 = Loss of life or vehicle
- = Loss of mission or next failure of any redundant item (like or unlike) could cause loss of life/vehicle
- = All others

### Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of life or vehicle.
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission.

### Redundancy Screen A:

- 1 = Is Checked Out PreFlight
  2 = Is Capable of Check Out PreFlight 3 = Not Capable of Check Out PreFlight
- NA = Not Applicable

### Redundancy Screens B and C:

- p = Passed Screen
- = Failed Screen
- NA = Not Applicable

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 1/1 MDAC ID: 17121 ABORT: / ITEM: SIDE HATCH LATCH MECHANISM FAILURE MODE: FAILS TO DISENGAGE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) SIDE HATCH
- 4) LATCH MECHANISM

5) 6) 7)

8) 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	1/1	RTLS:	/
LIFTOFF:	/	TAL:	<i>'</i> /
ONORBIT:	1/1	AOA:	//
DEORBIT:	./	ATO:	//
LANDING/SAFING	: /		/

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: MIDDECK PART NUMBER: V070-593201

CAUSES: FOREIGN OBJECTS/DEBRIS, PHYSICAL BINDING JAMMING, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/MISSION DURING PRELAUNCH EMERGENCY EGRESS OR ON-ORBIT IF EMERGENCY CREWMEMBER INGRESS IS REQUIRED. THIS ITEM NOT IDENTIFIED SEPARATELY IN IOA DATA DROP 2.

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 1/1 ABORT: /

ITEM:

SIDE HATCH HINGE

FAILURE MODE: PHYSICAL BINDING JAMMING

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) SIDE HATCH
- 4) HATCH HINGE
- 5)
- 6)
- 7) 8)
- 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	1/1	RTLS:	/
LIFTOFF:	/	TAL:	,
ONORBIT:	1/1	AOA:	1
DEORBIT:	/	ATO:	1
LANDING/SAFING:	. /		,

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: MIDDECK PART NUMBER: V070-593202

CAUSES: PIECE-PART FAILURE, FOREIGN OBJECTS/DEBRIS

#### EFFECTS/RATIONALE:

POTENTIAL LOSS OF MISSION/CREW DUE TO LOSS OF INGRESS CAPABILITY DURING PRELAUNCH EMERGENCY. NOT INCLUDED AS A SEPARATE ITEM IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/16/88 DATE: FLIGHT: 1/1 SUBSYSTEM: MECH/PH ABORT: MDAC ID: 17123 SIDE HATCH ATTENUATOR HINGE ITEM: FAILURE MODE: PHYSICAL BINDING/JAMMING LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) PERSONNEL HATCHES 3) SIDE HATCH ATTENUATOR ASSY 4) 5) 6) 7) 8) 9) CRITICALITIES HDW/FUNC ABORT HDW/FUNC FLIGHT PHASE RTLS: 1/1 PRELAUNCH: TAL: LIFTOFF: AOA: 1/1 ONORBIT: ATO: / DEORBIT: LANDING/SAFING:

MIDDECK LOCATION:

PART NUMBER: MC252-0002-0001

CAUSES: PIECE-PART FAILURE, FOREIGN OBJECTS/DEBRIS

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

### EFFECTS/RATIONALE:

POTENTIAL LOSS OF MISSION/CREW DUE TO LOSS OF INGRESS CAPABILITY DURING ON-ORBIT EMERGENCY OR EGRESS CAPABILITY DURING PRELAUNCH EMERGENCY. NOT INCLUDED AS A SEPARATE ITEM IN THE IOA DATA DROP

HIGHEST CRITICALITY HDW/FUNC 2/16/88 2/2 FLIGHT: DATE: SUBSYSTEM: MECH/PH / ABORT: MDAC ID: 17125 AIRLOCK HATCH LATCH MECHANISM ITEM:

FAILURE MODE: FAILS TO DISENGAGE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) AIRLOCK
- 4) HATCH LATCH MECHANISM
- 5)
- 6) 7)
- 8)
- 9)

### CRITICALITIES

	CRITICALITIES		HDW/FUNC	
FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING	HDW/FUNC / 2/2 /	ABORT RTLS: TAL: AOA: ATO:	//	

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION: MIDDECK PART NUMBER: V075-593301

CAUSES: PHYSICAL BINDING/JAMMING, PIECE-PART FAILURE

POTENTIAL LOSS OF MISSION DUE TO INABILITY TO PERFORM EVA

MISSIONS BECAUSE HATCHES CANNOT BE OPENED.

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 1/1 MDAC ID: 17124 ABORT: 

ITEM: AIRLOCK HATCH LATCH MECHANISM

FAILURE MODE: FAILS TO ENGAGE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PERSONNEL HATCHES
- 3) AIRLOCK
- LATCH MECHANISM 4)
- 5)
- 6)
- 7)
- 8) 9)

FLIGHT PHASE	CRITICA		
PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC / 1/1 /	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC / / /

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: MIDDECK PART NUMBER: V075-593301

CAUSES: PIECE-PART FAILURE, FOREIGN OBJECTS/DEBRIS, PHYSICAL

### EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/MISSION DUE TO INABILITY TO CLOSE AND SEAL HATCH B PREVENTING AIRLOCK REPRESSURIZATION. NOT INCLUDED AS A SEPARATE ITEM IN IOA DATA DROP 2.

DATE: 2/16/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PH FLIGHT: 2/2 MDAC ID: 17126 ABORT: AIRLOCK HATCH LATCH LOCK ITEM: FAILURE MODE: FAILS UNLOCK LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) PERSONNEL HATCHES 3) AIRLOCK HATCH LATCH MECHANISM 4) 5) 6) 7) 8) 9)

CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: / RTLS: / LIFTOFF: / TAL: / ONORBIT: 2/2 AOA: / DEORBIT: / ATO: / LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION: MIDDECK PART NUMBER: V075-593301

CAUSES: PHYSICAL BINDING/JAMMING, PIECE-PART FAILURE

EFFECTS/RATIONALE:

POTENTIAL LOSS OF MISSION DUE TO INABILITY TO PERFORM EVA MISSIONS BECAUSE HATCHES CANNOT BE OPENED.

HIGHEST CRITICALITY HDW/FUNC 2/25/88

DATE: 2/25/88 SUBSYSTEM: MECH/PBR MDAC ID: 16513 FLIGHT: 1/1 ABORT: 3/3

LINKAGE ASSEMBLY ITEM:

FAILURE MODE: PHYSICAL BINDING/JAMMING

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) DEPLOYMENT 4) LINKAGE ASSEMBLY

5)

6)

7)

8) 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	1/1	AOA:	3/3
DEORBIT:	1/1	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [NA ] B [NA ] C [NA ]

LOCATION:

PART NUMBER: V070-594410

CAUSES: ADVERSE TOLERANCES/WEAR, CONTAMINATION/FOREIGN OBJECT/DEBRIS, DEFECTIVE PART/MATERIAL DEFECT, THERMAL DISTORTION, VIBRATION

EFFECTS/RATIONALE:

POSSIBLE LOSS OF CREW VEHICLE IF RADIATOR CANNOT BE STOWED.

DATE:

2/25/88

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/PBR

FLIGHT: 2/1R ABORT: 3/3

MDAC ID: 16511

ITEM:

BEARING, TORQUE SHAFT SUPPORT

FAILURE MODE: FAILS TO ROTATE

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) TORQUE SHAFT
- 4) BEARING
- 5)
- 6)
- 7)
- 8)

9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/3
DEORBIT:	2/1R	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [ 3 ] B [ F ] C [ P ]

LOCATION:

PART NUMBER: ME131-0051-0009

CAUSES: ADVERSE TOLERANCES/WEAR, CONTAMINATION/FOREIGN OBJECT

DEBRIS, SEIZED BEARING, TEMPERATURE, MISALIGNMENT

EFFECTS/RATIONALE:

POSSIBLE LOSS OF VEHICLE/CREW IF RADIATOR CANNOT BE STOWED AND

PAYLOAD BAY DOORS CLOSED.

DATE: 2/25/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/PBR MDAC ID: 16514 FLIGHT: 3/1R ABORT: 3/3

ITEM: ROLLER ASSEMBLY LATCH RADIATOR

FAILURE MODE: FAILS TO ENGAGE

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- PBR 2)
- 3) DEPLOYMENT
- 4) ROLLER ASSEMBLY LATCH
- 5)
- 6)
- 7)
- 8) 9)

#### CRITICALITIES

HDW/FUNC	ABORT	HDW/FUNC
3/3	RTLS:	3/3
3/3	TAL:	3/3
3/1R	AOA:	3/3
3/1R	ATO:	3/3
: 3/3		•
	3/3 3/3 3/1R 3/1R	3/3 RTLS: 3/3 TAL: 3/1R AOA: 3/1R ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION:

PART NUMBER: MC203-0002-0012, 19, 32, 39

CAUSES: ADVERSE TOLERANCES WEAR, CONTAMINATION

EFFECTS/RATIONALE:

NONE

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 2/1R 2/25/88 DATE:

SUBSYSTEM: MECH/PBR MDAC ID: 16512 ABORT:

SWITCH MODULE, LIMIT, RADIATOR STOWED

FAILURE MODE: SHORTS, PREMATURELY CLOSES, CONDUCTS INADVERTENTLY

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) RADIATOR 4) SWITCH, LIMIT
- 5)
- 6)
- 7)
- 8) 9)

### CRITICALITIES

	CRITICALITIES		
FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC 3/3 3/3 2/1R 2/1R	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/3 3/3 3/3 3/3

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME452-0123-0003

CAUSES: PIECE-PART STRUCTURAL FAILURE, MECHANICAL SHOCK,

VIBRATION, CONTAMINATION

SECOND FAILURE MAY PREVENT STOWAGE OF RADIATORS RESULTING IN IN ABILITY TO CLOSE PAYLOAD BAY DOORS.

DATE: 1/28/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R ABORT: 3/1R MDAC ID: 11700

ITEM: FUSE (1A) MOTOR POWER CONTROL

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) PROBE ASSEMBLY
- 4)
- 5)
- 6)
- 7) 8)
- 9)

### CRITICALITIES

PRELAUNCH:	HDW/FUNC	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC
LIFTOFF:	/		3/1R
ONORBIT:	/		3/1R
DEORBIT:	3/1R		3/1R
LANDING/SAFING:	3/3	ATO:	/

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME451-0018-0100

CAUSES: PIECE-PART FAILURE

### EFFECTS/RATIONALE:

LOSS OF ONE REDUNDANT AIR DATA PROBE MOTOR. SECOND LOSS WOULD CAUSE LOSS OF PROBE CONTROL. NOT IDENTIFIED PRIOR TO DATA DROP

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/3 1/28/88 SUBSYSTEM: MECH/ADP/EPD&C DATE: FLIGHT: 3/3 3/3 ABORT: MDAC ID: 11701 RESISTOR ITEM: FAILURE MODE: OPEN LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) AIR DATA PROBE SWITCH SCAN - LIMIT RESISTOR 4) 5) 6) 7) 8) 9) CRITICALITIES CRITICALITIES
HDW/FUNC ABORT HDW/FUNC
/ RTLS: 3/3
/ TAL: 3/3 FLIGHT PHASE PRELAUNCH: 1 LIFTOFF: 3/3 AOA: ONORBIT: ATO: 3/3 3/3 DEORBIT: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE

EFFECTS/RATIONALE:

NO EFFECT ON PROBE OPERATION. NOT IDENTIFIED PRIOR TO DATA DROP 2.

DATE: 1/29/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/3 MDAC ID: 11702 ABORT: 3/3 ITEM: RESISTOR FAILURE MODE: OPEN (ELECTRICAL) LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) AIR DATA PROBE 3) LIMIT SWITCH - LIMIT RESISTOR 4) 5) 6) 7) 8) 9) CRITICALITIES FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: RTLS: 3/3 LIFTOFF: / TAL: 3/3 / ONORBIT: AOA: 3/3 DEORBIT: ATO: 3/3 LANDING/SAFING:

LOCATION:

PART NUMBER:

CAUSES: PIECE-PART FAILURE, MECHANICAL SHOCK, VIBRATION

REDUNDANCY SCREENS: A [ ] B [ ] C [ ]

EFFECTS/RATIONALE:

NO EFFECT IN AIR DATA PROBE OPERATION. NOT IDENTIFIED PRIOR TO DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/1R ABORT: 3/1R 1/29/88 SUBSYSTEM: MECH/ADP/EPD&C MDAC ID: 11703

ITEM:

DIODE

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) DEPLOY/HEAT DEPLOY SWITCH OUTPUT

4)

5)

6)

7)

8) 9)

CRITICALITIES

PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT:	HDW/FUNC / / 3/1R	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/1R 3/1R 3/1R /
LANDING/SAFING	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE AFTER LOSS OF OTHER REDUNDANT

CIRCUIT HARDWARE. NOT FOUND PRIOR TO DATA DROP 2.

DATE: 1/29/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R MDAC ID: 11704 ABORT: 3/1R

ITEM:

FAILURE MODE: SHORT (ELECTRICAL)

DIODE

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) DEPLOY/HEAT DEPLOY SWITCH OUTPUT

4)

5) 6)

7)

8)

9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	3/1R
LIFTOFF:	/	TAL:	3/1R
ONORBIT:	/	AOA:	3/1R
DEORBIT:	3/1R	ATO:	/
Landing/Safir	1G: /		′

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE, THERMAL

#### EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER ADDITIONAL REDUNDANT CIRCUIT HARDWARE. NOT IDENTIFIED PRIOR TO DATA DROP 2.

DATE: 2/01/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/3 ABORT: 3/3 MDAC ID: 11705 ITEM: DIODE FAILURE MODE: SHORT (ELECTRICAL) LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY BREAKDOWN HIERARCHY: 1) MECHANICAL ACTUATION SYSTEM 2) AIR DATA PROBE 3) DEPLOY/HEAT - DEPLOY SWITCH SCAN 4) 5) 6) 7) 8) 9) CRITICALITIES HDW/FUNC ABORT HDW/FUNC / RTLS: 3/3 / TAL: 3/3 FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: AOA: 3/3 DEORBIT: 3/3 ATO: LANDING/SAFING: / REDUNDANCY SCREENS: A [ ] B [ ] C [ ] LOCATION: PART NUMBER: CAUSES: THERMAL, PIECE-PART FAILURE EFFECTS/RATIONALE:

REFERENCES: ADS DRAWING 9.9 REV. C

NO EFFECT ON AIR DATA PROBE OPERATION.

HIGHEST CRITICALITY HDW/FUNC 2/01/88 DATE: SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R ABORT: 3/1R MDAC ID: 11706 DIODE ITEM:

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- AIR DATA PROBE 2)
- DEPLOY/HEAT DEPLOY SWITCH SCAN 3)
- 4) 5)
- 6)
- 7)
- 8) 9)

#### CRITICALITIES

C1/1 1 C1/11 1		
HDW/FUNC	ABORT	HDW/FUNC
,	RTLS:	3/1R
<i>'</i> /	TAL:	3/1R
′/	AOA:	3/1R
3/1R	ATO:	/
3/3		
	HDW/FUNC / / / 3/1R	HDW/FUNC ABORT / RTLS: / TAL: / AOA: 3/1R ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: PART NUMBER:

CAUSES: PIECE-PART FAILURE, VIBRATION, MECHANICAL SHOCK

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER, ADDITIONAL REDUNDANT HARDWARE IN THE CIRCUIT. NOT IDENTIFIED PRIOR TO DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC FLIGHT: 3/1R ABORT: 3/1R DATE: 2/02/88 SUBSYSTEM: MECH/ADP/EPD&C ABORT: MDAC ID: 11707

ITEM:

DIODE

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) HEATER CONTROL
- 4)
- 5)
- 6)
- 7) 8)
- 9)

### CRITICALITIES

	CRITICALITIES		TOTAL
FLIGHT PHASE IN PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC / / 3/1R 3/3	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/1R 3/1R 3/1R

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: HEATER CONTROL ASSEMBLY

PART NUMBER:

CAUSES: PIECE-PART FAILURE, VIBRATION, MECHANICAL SHOCK

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER, ADDITIONAL HARDWARE IN THE CIRCUIT. NOT IDENTIFIED IN DATA DROP 2.

DATE: 2/02/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/ADP/EPD&C FLIGHT: 3/1R ABORT: 3/1R MDAC ID: 11708

ITEM:

DIODE FAILURE MODE: SHORT (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) AIR DATA PROBE
- 3) HEATER CONTROL
- 4)
- 5)
- 6) 7)
- 8) 9)

CRITICALITIES

FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC / / / 3/1R 3/3	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/1R 3/1R 3/1R
LANDING/SAFING:	3/3		,

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: HEATER CONTROL ASSEMBLY

PART NUMBER:

CAUSES: PIECE-PART FAILURE, THERMAL

EFFECTS/RATIONALE:

POTENTIAL LOSS OF CREW/VEHICLE UPON LOSS OF OTHER ADDITIONAL HARDWARE IN THE CIRCUIT. NOT IDENTIFIED IN DATA DROP 2.

2/25/88 DATE:

HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/PBR

FLIGHT: 2/1R ABORT: 3/3

MDAC ID:

16515

ITEM:

FUSE, 1A

FAILURE MODE: FAIL OPEN

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) PBR
- 3) FUSE
- 4)
- 5)
- 6)
- 7) 8)
- 9)

CRITICALITIES

	CKTIICN	7777770	
FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING:	HDW/FUNC 3/3 3/3 2/1R 2/1R	ABORT RTLS: TAL: AOA: ATO:	HDW/FUNC 3/3 3/3 3/3 3/3

LANDING/SAFING: 3/3

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME451-009-1001

CAUSES: CONTAMINATION, THERMAL STRESS, MECHANICAL SHOCK,

VIBRATION

EFFECTS/RATIONALE:

NO EFFECT - FIRST FAILURE - POSSIBLE VEHICLE LOSS AFTER SECOND

FAILURE AND INABILITY TO STOW RADIATORS.

DATE: 2/25/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/PBR FLIGHT: 2/1R MDAC ID: 16516 ABORT:

3/3

ITEM: MID MCA 1, 2, 3, 4

FAILURE MODE: FAILS TO TRANSFER, FAILS TO CONDUCT, SHORTS TO

GROUND (DC SIDE)

LEAD ANALYST: W. SLAUGHTER SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2)
- 3) MID MCA 1, 2, 3, 4
- 4)
- 5)
- 6)
- 7)
- 8) 9)

#### CRITICALITIES

<b></b>	A-17 T CU	TITIO	
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	- / -
DEORBIT:	2/1R	ATO:	3/3
LANDING/SAFING:	3/3	AIO.	3/3

REDUNDANCY SCREENS: A [ 2 ] B [ P ] C [ P ]

LOCATION:

PART NUMBER: ME455-0135-0001, -0002

CAUSES: CONTAMINATION, PIECE-PART STRUCTURA FAILURE, VIBRATION,

THERMAL STRESS, MECHANICAL SHOCK

EFFECTS/RATIONALE:

POSSIBLE LOSS IF VEHICLE/CREW AFTER SECOND FAILURE.

HIGHEST CRITICALITY HDW/FUNC 2/05/88 DATE: SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R ABORT: MDAC ID: 14688

ITEM: DIODE (DEPLOY CONTROL)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY CONTROL CIRCUIT (MCA2 & 4)

5) 6)

7)

8) 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	/
LIFTOFF:	1	TAL:	/
ONORBIT:	3/1R	AOA:	/
DEORBIT:	/	ATO:	/
LANDING/SAFING	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: THERMAL, VIBRATION, MECHANICAL SHOCK, PIECE-PART FAILURE

EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT. ADDITIONAL FAILURES COULD CAUSE INADVERTENT DEPLOY OF THE KU-BAND ANTENNA, DAMAGING ORBITER PLB DOORS/RADIATORS. ITEM NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/05/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R MDAC ID: 14689 ABORT: /

ITEM: DIODE (STOW ENABLE CIRCUIT)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) BOOM STOW ENABLE (MCA2 & 4)

5)

6)

7)

8) 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	,
LIFTOFF:	/	TAL:	,
ONORBIT:	3/1R	AOA:	,
DEORBIT:		ATO:	1
LANDING/SAFING	G: /		,

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4
PART NUMBER: JANTXV1N4246

CAUSES: THERMAL, VIBRATION, MECHANICAL SHOCK, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT AFTER FIRST FAILURE. ADDITIONAL FAILURES IN CONJUCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS WHEN ANTENNA IS DEPLOYED. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/08/88 DATE: SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R ABORT:

MDAC ID: 14690

RESISTOR (STOW SIGNAL)

ITEM: FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW SIGNAL CIRCUIT (MCA2 & 4)

5) 6)

7)

8) 9)

CRITICALITIES

CRITICALITIES		
HDW/FUNC	ABORT	HDW/FUNC
/	RTLS:	/
<b>'</b> /	TAL:	/
3/1R	AOA:	/
/	ATO:	/
: /		
	HDW/FUNC / / 3/1R	HDW/FUNC ABORT / RTLS: / TAL: 3/1R AOA: / ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: RWR80S1211FR

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

#### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT ON FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN 10A DATA DROP 2.

DATE: 2/08/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R MDAC ID: 14691 ABORT:

/

ITEM: RESISTOR (STOW SIGNAL)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW SIGNAL CIRCUIT (MCA2 & 4)

5)

6)

7)

8) 9)

#### CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	,
LIFTOFF:	/	TAL:	,
ONORBIT:	3/1R	AOA:	1
DEORBIT:	/	ATO:	1
LANDING/SAFING	: /		,

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: RWR80S1211FR

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

#### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 3/1R 2/08/88 FLIGHT: DATE: SUBSYSTEM: MECH/KBD/EPD&C ABORT:

14692 MDAC ID:

RESISTOR (STOW ENABLE SIGNAL)

ITEM: FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW ENABLE CIRCUIT (MCA2 & 4)

5) 6)

7)

8) 9)

CRITICALITIES

HDW/FUNC ABORT HDW/FUNC
/ RTLS: /
TAL: /
3/1R AOA: / FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: ATO: DEORBIT: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/09/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C

FLIGHT: 3/1R MDAC ID: 14693 ABORT: /

ITEM: RESISTOR (STOW ENABLE SIGNAL)

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- STOW ENABLE CIRCUIT (MCA2 & 4) 4)
- 5) 6)
- 7)
- 8)
- 9)

### CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC RTLS:
TAL:
AOA: PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: / ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/09/88 DATE: FLIGHT: 3/1R SUBSYSTEM: MECH/KBD/EPD&C ABORT: MDAC ID: 14694

DIODE (DEPLOY POS. INDICATION) ITEM:

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY POSITION INDICATOR CIRCUIT (MCA2 & 4)

5) 6) 7)

8) 9)

#### CRITICALITIES

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HDW/FUNC	ABORT	HDW/FUNC	
/	RTLS:	/	
1	TAL:	/	
3/1R	AOA:	/	
/	ATO:	/	
: /			
	HDW/FUNC / 3/1R	HDW/FUNC ABORT  RTLS:  TAL:  3/1R AOA:  ATO:	

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE, THERMAL

EFFECTS/RATIONALE: NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO POSSIBLE INADVERTENT/PREMATURE DEPLOYMENT OF THE ANTENNA, DAMAGING ORBITER STRUCTURE. NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/09/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R

MDAC ID: 14695 ABORT:

ITEM: DIODE (DEPLOYED/XMIT SCAN ENABLE)

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

#### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY/XMIT SCAN ENABLE CIRCUIT (MCA2 & 4)

5)

6)

7) 8)

9)

#### CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC PRELAUNCH: RTLS: / LIFTOFF: TAL: / ONORBIT: 3/1R AOA: DEORBIT: ATO: LANDING/SAFING:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE DUE TO LOSS OF STATE VECTOR UPDATE CAPABILITY. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/09/88 DATE: 3/1R

FLIGHT: SUBSYSTEM: MECH/KBD/EPD&C ABORT: MDAC ID: 14696

DIODE (DEPLOYED/XMIT SCAN ENABLE) ITEM:

FAILURE MODE: SHORTED

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY/XMIT SCAN ENABLE CIRCUIT

5) 6)

7)

8) 9)

CRITICALITIES

FLIGHT PHASE HDW/FUNC ABORT HDW/FUNC
PRELAUNCH: / RTLS: /
LIFTOFF: / TAL: /
ONORBIT: 3/1R AOA: /
DEORBIT: / ATO: / DEORBIT: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

MID MCA2 & 4 LOCATION: PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE DUE TO LOSS OF STATE VECTOR UPDATE CAPABILITY. NOT IDENTIFIED IN IOA DATA DROP 2.

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC

SUBSYSTEM: MECH/KBD/EPD&C FLIGHT: 3/1R MDAC ID: 14697 ABORT: 

ITEM: FUSE (DEPLOY/XMIT SCAN ENABLE)

FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) DEPLOY INDICATION/XMIT SCAN ENABLE CIRCUIT

5) 6)

7)

8) 9)

CRITICALITIES

HDW/FUNC ABORT HDW/FUNC
/ RTLS: /
TAL: /
3/1R AOA: / FLIGHT PHASE PRELAUNCH: LIFTOFF: ONORBIT: DEORBIT: LANDING/SAFING: / ATO:

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: ME451-0018-0200

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

### EFFECTS/RATIONALE:

NO IMMEDIATE EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE DUE TO THE INABILITY TO PROVIDE STATE VECTOR UPDATE CAPABILITY. NOT IDENTIFIED IN IOA DATA DROP 2.

HIGHEST CRITICALITY HDW/FUNC 2/10/88 FLIGHT: 3/1R SUBSYSTEM: MECH/KBD/EPD&C ABORT: MDAC ID: 14698

DIODE (STOW INITIATE) ITEM: FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW INITIATE CIRCUIT (MCA2 & 4)

5) 6)

7) 8)

9)

#### CRITICALITIES

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FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	/	RTLS:	/
LIFTOFF:	<b>'</b> /	TAL:	/
ONORBIT:	3/1R	AOA:	1
	/	ATO:	,
DEORBIT:	. /		,
LANDING/SAFING	: /		

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: JANTXV1N4246

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO INABILITY TO CLOSE PLB DOORS WITHOUT CAUSING STRUCTURAL DAMAGE TO DOORS. NOT INCLUDED IN THE IOA DATA DROP 2.

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC SUBSYSTEM: MECH/KBD/EPD&C

FLIGHT: 3/1R MDAC ID: 14699 ABORT:

ITEM: FUSE (STOW INITIATE) FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: M. BRADWAY SUBSYS LEAD: H.J. LOWERY

### BREAKDOWN HIERARCHY:

- 1) MECHANICAL ACTUATION SYSTEM
- 2) KU-BAND SUBSYSTEM
- 3) ELECTRICAL
- 4) STOW INITIATE CIRCUIT (MCA2 & 4)

5)

6)

7)

8) 9)

#### CRITICALITIES

HDW/FUNC ABORT HDW/FUNC FLIGHT PHASE RTLS: TAL: AOA: PRELAUNCH: 1, / LIFTOFF: / 3/1R ONORBIT: / DEORBIT: ATO: LANDING/SAFING: /

REDUNDANCY SCREENS: A [ 2 ] B [ F ] C [ P ]

LOCATION: MID MCA2 & 4 PART NUMBER: ME451-0009-1001

CAUSES: MECHANICAL SHOCK, VIBRATION, THERMAL, PIECE-PART FAILURE

#### EFFECTS/RATIONALE:

NO EFFECT FROM FIRST FAILURE. ADDITIONAL FAILURES IN CONJUNCTION COULD CAUSE LOSS OF CREW/VEHICLE DUE TO THE INABILITY TO CLOSE PLB DOORS WITHOUT STRUCTURAL DAMAGE TO THE DOORS. NOT INCLUDED IN THE IOA DATA DROP 2.

#### APPENDIX F

## NASA FMEA TO IOA WORKSHEET CROSS REFERENCE/RECOMMENDATIONS

This section provides a cross reference between the NASA FMEA and corresponding IOA analysis worksheet(s) included in Appendix E. The Appendix F identifies: NASA FMEA Number, IOA Assessment Number, NASA criticality and redundancy screen data, and IOA recommendations.

Appendix F Legend

Code Definition

None.

APPENDIX F

NASA FMEA TO IOA WORKSHEET CROSS REFERENCE / RECOMMENDATIONS

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	MECH/KBD-4681		! / !	:		$\frac{i}{I}$ :	,	, !	!
	: MECH/KBD-4682 :		/ !			1		1	;
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	MECH/KBD-4684			i		1	!	•	!
	MECH/KBD-4685		1	!		7			i
	/ MECH/KBD-4686	;	! !	1		1 3	1	• •	1
	: MECH/KBD-4687 (	; ;	'!	] i		/ !	. !	:	ŗ
	MECH/PBD-5103		1	?		1 3	!	1 1	!
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IDENTIA	FIERS	11	N	ASA 	- H - H -		IDA RECOMM	MENDATIONS *	
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	MECH/PBD-5117	11	1	}	; ;	1	1		;
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	: MECH/PBD-5160	1 1	1	i	1 1	1	:	1	1
	MECH/PBD-5170	11		1	11	1	;	1	:
	: MECH/PBD-5171	11	1		- 11	1,	i	1	1
	HECH/PBD-5172	: :	1	1	11	1	i :	i i	1
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	: MECH/PH-7104	- 1		1	: :		i	i	1
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	MECH/SDM-9107	11	, ;				1 I 1 E	1	1		i			1
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	HECH/VDM-8504		, '	,			11	1	<u> </u>		;			;
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	MECH/VDM-8516	11	1		n	۶	11	ĺ,						1
1-58-380101-1	MECH/VDM-8102		2/1R	: 1	Þ	٢	11	,	. !					1
1-58-380102-1	MECH/VDM-9100	! !	1/1				: 1		;	!				1
)1-58-380103-1	! MECH/VDM-8100A		1/1				1 1	1	,	1		! !		L i
)1-5B-380104-1	: MECH/VDM-8102A	13	2/1R						,	1		1		i.
)1-38-30414 ( ;	; MECH/VDM-8103A	1 1	2/18			6	i		i i	i L				!
	MECH/VDM-8104A	i i	2/1R	1 1	F	P	1		,	1				1
01-58-380105-1	MECH/VDM-8101	( )	1/1	1			ì	i .	1	1				:
01-08-984149-1	MECH/VDM-8103B	1.1	1/1	ì			1		!	1		1		i 1
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01-5B-380105-1	MECH/VDM-8103C	1 1	2/16	1	P F	F			1	1		i		i i
01-58-380106-3	MECH/VDM-3105	1.1	1/1	i				;	1	i		; I		1
01-58-380107-1	MECH/VDM-8104	1.1	1/1	1				i	I	1		1		1
01-58-390107-2	MECH/VDM-8103D	1 1 1 1	2/1	R I	F	F	þ	1 1	1	i		1		1
01-5B-380107-3	MECH/VOM-8104C	1 1	2/1	R I	F	F		1 !	1	1		1		1
	MECHANDM-8100B	1.2	1/1	1 i				1 !	1	1		i		i
01-58-380108-1	MECH/VDM-8101A	1 2	1/1					! !	1	i		i		1
	MECH/VDM-81028	; 1 ; 1	2/1	R I	F	F	5	11	İ	ŀ		i		!
01-58-380109-1	MECH/VDM-B100C	1 1	1/1	. i				1 1	1	!		i		1
01-5B-380110-1	: MECH/VDM-8101B	1 !						: 1	Ŧ	1		i		1
01-58-380111-1	MECH/VDM-8102C	! !			F	۴	P	1 1	1	1		i		
01-58-380112-1	MECH/VDM-8103E		2/			F	Ρ	) i } 1	I	1		i		1
ì i	#ECH/VDM-8104D					F	P	11	1	i i		i		
; l	MECH/VDM-8101E							1 1	- /	1		i		1
01-58-380113-1	MECH/VDM-8103F				i i			1 1	1	1				!
1			1 1/		i			1 1	1	1		i .		
1	MECH/VDM-81046	-	1 2/	18		٦	P	!!	- 1	i		!		i !
01-5B-3B0114-1	MECH/VDM-81030		1 2/	18	; P	P	P	1 1	1	;		1		1
†	MECH/VDM-8104		1 2/	18	; P	F	p	1 1	1			Ì		1
01-58-380114-3	MECH/VDM-8103		(† 2)	/1R	1 P	F	P	11	1	}		l ł		i
1	MECH/VDM-8104	_	$\{1, 2, 4, 1, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, 1, 2, \dots, 4, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, 2, \dots, 4, \dots, $		1	•		11	1	•		1		i 1
01-58-380115-1	MECH/VDM-8105				!			; f	1	1		i		i
1	MECH/VDM-B106			/1	!			11	1	!		1		i
: 01-58-380115-2	MECH/VDM-8103	_			1			1.1	1	1		1		
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01-58-380115-3	: MECH/VDM-8103	-	11 2	71K 010	1 5		,	i k	1			1 i		;
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ORIGINAL PAGE 18

MASS   TOA		DENTIFIERS	1	NASA	ruuk ::	QUALITY 10A RECOM	MENDATIONS #	
O.1-58-30013-1						SCREENS	) OTHER	 ! IS
O1-58-30013-1   MECH/VDM-8102D   17/1   17	01-58-380116-1	;==========; ! MECH/UBMLO+AAB	}=====:	:========		=	====================================	; {===
101-58-300119-1   MCCM/VDM-8100E   1/1				i	1 /	i	1	!
0.1-55-300120-1	-			IFFP;	1 /	1	i i	,
01-58-30120-1				;	1 /	1	!	,
O1-58-380122-1	-		• • •	1	1 /	1	!	<b>.</b>
C1-58-380122-3				1	1 /	1		
C1-58-380122-3	. ATLMB_380177-1		2/1R	PPP:	1 /		' !	
MECH/VDM-BIOSE	: Af 55 755:55 -		2/1R	IPPP:	l = l		'	
01-58-380123-1   NECH/VDH-8105B   1/1	: 01-98-980175-3		2/1R	PPP!	1 /			
MECH/VDM-BIOSB   1/1	. At St waster .		2/18	PPP;	,			
MECH/VDH-9103M	01-58-380123-1		1/1		-	, ,	4	
MECH/VBM-BIO3M   1/1			1/1			i i	1	
MECH/VDH-B103M   1/1	01-58-380123-2	MECH/VDM-8103M				) 	÷	
### ### ### ### ### ### ### ### ### ##		i trestroner -			1	1	1	
#ECH/VDM-8104M	01-58-380123-3				/	i (	i	
01-58-380125-1   MECH/VDM-8102E   2/1R   F   F   P   P   01-58-380127-1   MECH/VDM-8101E   1/1   01-59-380129-1   MECH/VDM-8101E   1/1   01-59-380129-1   MECH/VDM-8101E   1/1   01-59-380129-1   MECH/VDM-8101F   2/1R   F   F   P   P		1			,	<u>{</u>	;	
	01-58-380125-1	1 Mean man -			1	1	4	
01-58-380127-1	01-5B-380126-1	1 110001		' ' ' ' '	1	!	!	
01-59-380128-1   MECH/VDM-8103D   2/1R   F F P   /	01-58-380127-1				Ι	1	<u> </u>	
MECH/VDM-8103D		( Memory and a			/ :	1	1	
MECH/VDM-9104N   2/18   F F P   /					I = I	į	1	
01-58-380130-1					/ }	į	:	
01-58-380130-1   MECH/VDM-8103P   1/18   P P P   7	01-58-380179-1	I MEGICALE.		FFFH	1 1	1		
MECH/VDM-91040					1 1		,	
MECH/VDM-B1030	11 12 000150 1			P P P 11	/ :	1	· · · · · · · · · · · · · · · · · · ·	
MECH/VDM-8104P	01-58-790170-7	I Name of the second		PPF	J = I	1	,	
MECH/VDM-8105C	41 90 000100-3	£ 1499-9-1-1-1			I = I	1	i i	
MECH/VDM-8104B   1/1	åt_50_700+ <b>7</b> + +		2/1R	P F P !!	7 :	!	i	
11-59-380131-2	Ar 00.030101-1		1/1 + 1	1 F	7 1		i	
11-5B-J80131-3	):_55 70A+7+ 5		1/1	! !	7 1		i	
MECH/VDM-8104R			1/1	11	7 1		:	
MECH/ESP-2100			2/1R		<i>j</i> ;	1	:	
MECH/ESP-2101	72-2074-5100-1	MECH/ESP-2100	1/1		7 1	1	;	
MECH/ESP-2102			1/1		f = f	i	į	
MECH/ESP-2103		1 Laboration and a second		11	7 1	į	: •	
MECH/ESP-2104		* <del>.</del>			/ 1		•	
MECH/ESP-2105					7 1	į	:	
MECH/ADP-1101A			-		7 1	i	!	
MECH/ADP-1102					7 ;		!	
MECH/ADP-1103	2-4-052000-2					'	1	
-4-052000-4				• • • • • • • • • • • • • • • • • • • •				X
-4-052000-5   MECH/ADP-1102A     2/1R   P P P     2/1R   P F P     X	2-4-052000-4	-				FPI	:	X.
-4-052000-6	?-4-052000-5					;	1	
-4-052000-6							!	(
MECH/ADP-1103B	-4-052000-6	/ News.				FP!		-
-4-054000-1	-	1 11==		_		F P ;		
-4A-593100-1 HECH/PH-7118   3/3   3/3   3/3   4A-593102-1   MECH/PH-17121X   1/1   1/1   4A-593202-1   MECH/PH-7109   1/1   1/	-4-054000-1	I MERHIADE ALLA				F P 1		
-9A-593192-1   MECH/PH-7120     3/3       3/3		1 DEFINATION -	,			F P !	•	
-4A-593201-1   MECH/PH-17121X    1/1		1 11000		_		1		
-4A-593202-1   MECH/PH-7109   1/1   1/1   1/1   MECH/PH-7110   1/1   1/1   1/1		1 MERCHAN		11 3.	/3 :	i	i I	
MECH/PH-7110   1/1   1/1   1/1		i MEROLENI		! ! .	/ }		1	i
MECH/PH-7110   1/1     1/1		<u> </u>	1 1	11 12	1 1	į	1	i
		•••	1 !			į	i	i
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## ORIGINAL TO THE OF POCK COMMENT

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NASA FMEA NUMBER	; IOA : ASSESSMENT NUMBER		CRIT	SC A	REEI 9	NS C		CRIT :	SC: A	REEI B	¥S	OTHER (SEE LEGEND CODE)	ISSUE    -=====
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)2-4A-593202-1	MECH/PH-7112		3/2R				1	3/1R	<b>!</b> P	F	P :		{ X
02-4A-593202-3	MECH/PH-7113	11	3/2R 1				11	3/1R	; P	F	P :		ł X
	MECH/PH-17122X	11	1/1				11	1	) I				:
02-4A-593203-1	MECH/PH-17123X		1/1				!!	1	i i				i
02-4A-593205-2	MECH/PH-17125X	11	• • •	p	р	Р	11	1	1				1
02-4A-593301-1	MECH/PH-17124X	11	1/1	,	•			1	1			}	1
02-4A-593301-2	: MECH/PH-7106	2 1	1/1	P	Р	P		1/1	 			!	1
02-44-593302-1	: MECH/PH-7108	11	1/1	۶	9	p	1		:			<b>!</b> !	i.
		11	1/1	, P	P	p	1		}			]	į.
	: MECH/PH-7108	11	3/2R	F	F	P	}		۱ ۲	F	P	! !	! X
02-44-593302-2	( MECH/PH-7102	11	3/2R	: : F	F	þ	:		P	F	Ρ	† }	1 X
	MECH/PH-7103	1 1	2/2	, ,	p	p	;		!			; ;	!
02-4 <b>A-593302-</b> 3	MECH/PH-17126X	11	2/2 3/3	; ; ; ;	i	1			! P	F	P	!	$X = \{$
02-4A-593309-1	HECH/PH-7100	11	3/3 3/3	I F			1		! P	F	P	<u> </u>	; X
	MECH/PH-7101	11	3/3	!			1	3/3	1			}	1
02-4A-593402-1	: MECH/PH-7119	11	3/3 2/1R	, , D	F	Р	1		1			i i	1
02-48-001-1	MECH/PBD-5104			;	,	þ	!	-	1			1	!
	MECH/PBD-5106	11		; F		P.	,	•	:				!
	MECH/PBD-51088	11	_	, г ! Р		: و	•	1 7	,			1	†
	MECH/PBD-5133	1 1			F	p	:	•	!				1
	MECH/PBD-5135	11		; P	•			1 1	!			1	:
	MECH/PBD-5137	11		, r	•			1 /	;				! :
	( MECH/PBD-5140	11			Г	i		1 /	!			* ·	1
02-4B-001-2	MECH/PBD-5101	- 11		1					!			1	1
	MECH/PBD-5107	- 11		1				11 /	•			1	1
	MECH/PBD-5108	1 1		1				1 1	:			1	!
	MECH/PBD-5113	1 1		i				H /	!			1	į
	: MECH/PBD-5115	i !	2/2R   1/1					!! <i>I</i>	}			•	1
02-49-002-1	MECH/PBD-5102A	11		1				11 /	:			1	1
	: MECH/PBD-5104A	1		,				11 /	!			1	ì
	; MECH/PBD-5106A	1		1				11 /	1			1	i
	: MECH/PBD-5107B	1		,				11 /	1			!	!
i	MECH/PBD-5108C	1		1				11 /	;			i i	1
! !	! MECH/P9D-5109	1		1				:: :::				<b>!</b>	i
i i	: MECH/PBD-5110	i !		į				11 7	!			}	1
<del>1</del> 1	MECH/PBD-5113B	1		1				H = I	!			! }	1
t i	: MECH/PBD-5114	i i		•				11 /	1			1	ì
i i	: MECH/PBD-51158	1		•				11 /	1			1	1
! !	: MECH/PBD-5121		1/1					11 /	;			1	;
1	: MECH/PDB-5122A : MECH/PBD-5101A		1 2/28					11 1	1			!	į
02-48-002-3	: MECH/PBD-5107A		1 2/28					H = I	ļ			l I	ž ž
1	: MECH/PBD-5108A		1 2/28					11 /	1			1	1
i i			1 2/28					11 /	1			!	!
!	MECH/P8D-5113A   MECH/PBD-5115A		1 2/2F					11 /	ł l			1	!
	MECH/PBD-5113H   MECH/PBD-5119		: 2/25 :: 2/18		p	p	P	H = I	ì			!	1
( 02-4B-003-2	MECH/PBD-5101B		2/18				P	H = I	i I			[	1
02-48-005-1	; MECH/PBD-51018		11 2/11			,	P	11 /	!			1	i i
02-48-005-4			11 3/18				p	11 /	1			1	i
1 02-48-005-5	( MECH/PBD-5105A		:: 3/10 :: 1/1	1	,	•	•	11 /	;			1	l l
; 02-4B-006-1	MECH/PDB-5122		;; 171 }}					; 1 ; 1	,			•	!

Head Subber	1DE	NTIFIERS	::	AEA	!	IOA RECOMM	ENDATIONS #		
0.2-48-008-2   MECH/890-5119A   1/1   7   7   7   7   7   7   7   7   7			HW/F	A B C		1 A B C 1	(SEE LEGEND CODE)	: ISSU	: E :
02-48-006-5	02-48-006-2	: MECH/P80-5111A		 	;======   /	;======;= !		;===== !	== ¦
MECH/PBD-S11SC			11 2/1R	1 P P P 1	1 /			1	:
192-48-007-1	02-48-006-5		1 2/18	1 P P P 1	1 /	1			:
O2-48-007-2			1 2/1R	IPPP:	! /	1		1	!
02-48-007-3				1 1	1 /	1 1		!	1
02-48-007-4						;		i i	1
02-48-008-1	· · · ·					!			;
MECH/PBD-5139						! !		:	!
02-48-008-2	1 02-48-008-1					? !	;	!	i
O2-48-099-1	1 07-4 <b>0</b> -000-0					1			1
02-48-101-1	· - · · · -						;		i
O2-48-106-1   MECH/PBD-5124   Z/IR   P NA P   /									1
02-48-107-1	· -						į		i
172-48-108-1						i			
02-48-109-1						i	i		į
MECH/PBD-5125						i	,		1
MECH/P8D-5126   171   1	02-48-110-1					1	i		i
O2-48-112-1	1						i ,		i
MECH/PBD-5123     2/1R   P F P   /	02-48-112-1					!	i !		
MECH/PDB-5124	02-48-113-1	MECH/PDB-5123		, -	/ !	!	1		
02-48-14-1		MECH/PD8-5124 (	2/1R :		7	: !	1		
02-48-140-2	02-4B-113-2	MECH/PD8-5123A /	2/1R (	P NA P II	1				i
02-48-200-1			2/1R ]	P NA P 11	7 1	1	1		
MECH/PBD-5161   1/1		! MECH/PBD-5145	2/18	PPPH	/ 1	1			1
02-48-201-1	02-48-200-1			† † 1 :	/ 1	1	1		
02-48-202-1					I = I	į	) 		1
MECH/PBD-5156		===.		, , ,	I = I	* ·	1		!
MECH/PBD-5157A	72-98-272-1				7 1	F 4	!		i
MECH/PBD-5162	: A7_40_000_0				/ 1	;	!		!
MECH/PBD-5146	1 02-40-202-2				1 1	ţ	! ;		1
MECH/PBD-5147     2/1R   P P P	: 07-48-203-1				/	!	1		ì
MECH/PBD-5151     2/1R   P P P     /	1				/ 1	i.	1		i
MECH/PBD-5151     2/1R   P P P     /	i .				7 1	i			ř
MECH/PBD-5152	1				/ i	į	1		
MECH/PBD-5153	1				1 1	i 1	1		ì
02-48-203-2	1				/ 1	i 1	į.		
02-4B-204-1	02-48-203-2				7 1	!	•		į
MECH/PBD-5165	02-4B-204-1	MECH/PED-5164	1/1 1		1	!	i I		
02-48-204-2	1	! MECH/PBD-5165  :	1/1 1		7 1	į	· !		
MECH/PBD-5157			1/1 1	1:	/ (		1		1
02-48-205-1	02-48-204-2	MECH/PBD-5155	1/1	1 1 F 1	1 1	1	!		į
02-48-207-1					1 1	1	:	,	!
02-48-207-2					1 1	!	1	!	!
02-4B-209-1   MECH/PBD-5169    1/1					$\mathcal{F}_{-}$ :	1	II.	!	
02-48-209-2   MECH/PBD-5166    2/1R   P NA P    /     MECH/PBD-5169    2/1R   P NA P    /					1 1	1	1 2	,	
MECH/PBD-5169		,,			/ 1	1	<b>i</b> :	1	!
	VE TO 19771				I = I	2	1	i	
		!	271H ( )		/ 1	!	*	i	
	=======================================	;;; ==================================	;		;		<b></b> -	i	

IDENT	IFIERS	11	NA:	3A			 		U1 	A RECO		1UN5		
MASA	ISA	11 CF		SCR A				CRIT	1 SC	REENS B C	:   (SI	OTHER SE LEGEND	•	: ISBUE :
FMEA NUMBER	ASSESSMENT NUMBER	:: M# :==:!:==	/	n ====	, :===	===	;	=====	:   ===	=====	;====	=======	======	=====
======================================	MECH/PBD-5127		1/1				1 1	1	i I		1			1
2-40-400-1	: MECH/PBD-5128	11 :	1/1 1				1 1	1	1		1			1
	MECH/PBD-5129		1/1 1				) i	1	i		!			
	MECH/PBD-5130		1/1					1	1		1			1
	: MECH/PBD-5131		1/1				! !	1	ŀ		1			i
	MECH/PBD-5132		1/1				! ! ! !	1	f i		†			
n an anz n	: MECH/PBD-5128A		1/1				11	1	i		ŧ.			1
2-48-403-2	MECH/PBD-5131A		1/1				1 1	7	1		3			
m an A49688.1	: MECH/ETU-3116		1/1				1 1 1 i	7	ř :		i i			i i
2-40-012000-1	: MECH/ETU-3119		1/1				!!	1	!		1			i
2-4D-012100-1	MECH/ETU-3121		1/1 1				11	1			i i			1
	: MECH/ETU-3123		1/1				11	1	1		1			1
	1 MECH/ETU-3127		1/1				11	1	Į i		ł.			i
.m. am. A4046A 0	: MECH/ETU-3120		1/1				1 3	1	1		1			i
2-4D-012100-2	MECH/ETU-3122		1/1				! !	1	1		i			1
	: MECH/ETU-3126		1/1	!			1.1	1	1		1			i
	MECH/ETU-3111		2/1R	p	ρ	Р	11	1	!		1			ž
)2-4D-012600-1	MECH/ETU-3113		2/1R	P	P	P	11	1	i i		i i			;
	MECH/ETU-3115		2/18	9	P	P	11	1	i		î I			!
	; MECH/ETU-3117B	11	2/1R	 ! P	ρ	Р	1 }	1	!		1			1
	MECH/ETU-311/B	11	2/1R		F	Р		1			!			i.
)2-4D-012600-3	; MECH/ETU-3117	11	1/1	•	•	•	- 11	1	1		} 			1
02-4D-012600-4	MECH/ETU-3115A		2/1R	! F	۶	p	11	Ī	:		1			l i
02-40-012600-5		1 1	2/1R	. F	, F	p p		i	1		i			7
	! MECH/ETU-3135	11	2/1R	! F	۲ '	۶.	11	,			ľ			į
	MECH/ETU-3136	1 !		: Р	P	p	11	1	1		3			!
02-4D-012700-2	; MECH/ETU-3124	       1	1/1	!	,		11	7	1		:			i
02-4D-013000-1	MECH/ETU-3135A	11	1/1	1			11	7	*		!			1
02-40-013300-1	: MECH/ETU-3137	11	1/1	!				7	!		1			1
	MECH/ETU-3139	11	1/1	1			11	,	1		1			1
	MECH/ETU-3141	11	1/1	•			11	j	1		1			1
02-40-013300-2	: MECH/ETU-3128 : MECH/ETU-3129	: :	1/1	•		X		Ī	1					1
		       	1/1	!			- 11		1		!			
	MECH/ETU-3138	11	1/1	)			11				1			4
	MECH/ETU-3140	11	1/1	!			11	· /	1					!
	MECH/ETU-3142   MECH/ETU-3130	1 !	2/1R	· · p	P	P	1 1	1	!		;			i
02-4B-013600+1	MECH/ETU-3132	11	2/1R			ė.	11	1	1		1			
	MECH/ETU-3134	11	2/1R			P		j	į		3			i
	MECH/ETU-3136A	11	2/1R				11		1		1			1
	( MECH/ETU-3133	11	2/1R				1 1		;		1			1
02-4D-013600-3	MECH/ETU-3133	1 1	1/1	!	•	•	11		1		1			ž t
02-4D-013500-4	MECH/ETU-3116B	11	2/1R	! F	F	Р	- 1		1		i			i i
02-4D-013600-5	MECH/ETU-3110B	11	2/1R				1		-		!			1
	MEDH/ETU-3131	1 1	2/1R 2/1R				!		;		į			i
	MECH/ETU-3132A	1 1	2/1R						i		!			;
		11	2/1R 2/1R						!		1			
02-4D-013700-2	: MECH/ETU-3143	11	$\frac{1}{1}$	!	'	,	;		!		,			1
07-40-014000-1	MECH/ETU-3108	1 I 1 I	1/1	i !			1		1		į			1
02-4D-014000-3	: MECH/ETU-3106	11	2/1R	; 5	, ç	. 6			į		ŧ			}
02-40-014500-1	MECH/ETU-3101	1 1 1 1 1 1	2/1R 2/1R						1		į			; i
	MECH/ETU-3103	11	£/ 17.	; <b>F</b>	f	- 1	1				1			1

I DE	INTIFIERS	1	;	lasa	ł		1	1	IDA RECOMM	ENDATIONS #	
NASA FMEA NUMBER	: IDA : ASSESSMENT NUMBI	ER :	H₩/F	! A	-	2	i i	   CRIT   HW/F	SCREENS S	OTHER (SEE LEGEND CODE)	1981 
02-4D-014600-1	#ECH/ETU-3105	;;=== ;;	_		F	=== Р	==; {;	=======   /	;======; ;	=======================================	.;==== :
	: MECH/ETU-3107	! !	2/1R	! P	F	P	11	1	1 1		1
02-40-014600-3	! MECH/ETU-3104	1 1	2/1R	1 8	F	Ρ	1 3	I	1		!
02-40-14700-2	: MECH/ETU-3109	1 1	2/1R	; P	Ρ	P	1 !	1	1 ;		!
02-4F-032001-1	: MECH/SDM-9100A	;;	2/1R	{ P	P	P	1 1	1	1 .		} I
02-4F-032001-3	HECH/SDM-9100	1 1			F	ρ	1.1	•	1 1		1
	MECH/SDM-9101A	1 1	3/1R		F	P	1 1		<u> </u>		1
02-4F-032001-4	#ECH/SDM-9101	! !			F	p	1 1		1		i
02-4F-032001-5	MECH/SDM-9100B	1 1	3/1R	l F	F	P	1 !		1 !		í
02-46-151-2	MECH/FBR-6211	11	1/1	ì			1 1		;		i
00 10 151 7	MECH/PBR-6212	} {	1/1	!			1 1		1		i
02-46-151-3	MECH/PBR-6212A	- ! !	1/1	;			1 }	1	:		i
02-46-152-1	MECH/PBR-16513X	11	1/1				- ; ;	/	!		1
92-46-152-3 92-46-153-1	! MECH/PBR-5213	11	1/1	í			11	3/3			! X
02-46-133-1 02-46-153-2	! MECH/PBR-6201 ! MECH/PBR-6203	11	2/1R	•	_	_	11	1	i		1
02-46-154-2	1 MECH/PBR-6207	11	2/1R 1/1	; P	F	F	11	/	:		1
02-46-154-3	MECH/PBR-620B	11	1/1	1			11	I I	: i	1	i
02-46-155-1	MECH/PBR-6205	11	1/1	1 F			11	7	i :		
02-4G-155-2	MECH/PBR-6204	- 11	3/1R	: ! <b>F</b>	F	p	! !	1	l 1 1		,
02-4 <b>G</b> -156-1	MECH/PBR-6301	11	2/1R		F	P	11	<i>i</i> .	1		
02-46-156-2	MECH/PER-6302		2/1R		NA	P	* 1	, , , , , , , , , , , , , , , , , , ,			
02-46-157-1	MECH/PBR-16511X	11	2/1R :		F	p	11	/ !			
02-4G-158-1	MECH/PBR-6211A	11	1/1			•	11	7			
02-46-175-1	MECH/PBR-6113	! !	2/18	p	ρ	ρ	11	1	:		
)2-46-179-2	MECH/PBR-5103	::	3/1R		F	Р	1.1	1 1			
2-46-180-1	! MECH/PBR-6107	1 1	2/1R /		p	P	11	/ 1	1		
22-46-180-2	: MECH/PBR-6108	1 1	2/1R 1	P	ρ	p	1 !	/ 1	1		
)2-4G-181-1	MECH/PBR-6111	1 1	2/18 :	P	NA	P	}	7 1	5 1	•	
)2-46-181-2	MECH/PBR-5112	; ;	2/1R	p	NA	P	1 1	3/3 !	;	i	Y
2-46-182-3	MECH/PBR-6112A	1 1	2/1R (	P	F	P	i i	3/3 1	i	}	X
)2-46-183-1	: MECH/PBR-6105	11	2/1R 1	F	F	۶	11	3/3 1	<i>I</i> 1	1	$\ddot{k}$
2-46-183-2	MECH/PBR-6104	1 1	3/18 (			Р	1 1	/ {	I I	1 4	
2-46-184-1	) MECH/P9R-16514X	: !	3/1R	Ρ	۶	P	1 1	I = I	!	1	
2-49-186-1	MECH/PBR-5302A	1 1	1 1				1:	I = I	i	7	
2-46-301-2	MECH/PBR-16512X	11	2/1R 1			P	11	ļ	}	;	
5-4 <b>5G-</b> 2001-01	MECH/PBR-6501	- 11	2/1R :		•	Ď	1 1	1 1	1	!	
	/ MECH/PBR-6502	1 1	2/1R 1		,	Ρ	11	/ 1	;	!	
	: MECH/PBR-6503	11	2/1R 1				( )	/ [	į	1	
5-4AB-2026A-2	: MECH/PBR-6504 : MECH/VDM-8107D	1:	2/1R	•			11	/ 1		!	
G-949-74584-7	MECH/VDM-810/D	11	2/18		P		11	/ 1		1	
	MECH/VDM-8502D		2/1R 1		•		11	<i>1</i>	i .		
5-6AB-2027-2	MECH/VDM-800ZD	11	2/1R   2/1R				11	$\frac{1}{2}$	1	1 4	
4 5118 EVE1 E	: MECH/VDM-8109A	11					11	$-\frac{I}{I} - \frac{1}{I}$	i i	i	
	: MECH/VDM-8502A	!!	2/18 1		7 ( 9 )		: 1	$\frac{I}{I} = \frac{1}{1}$	i !	i	
5-6AB-2029	MECH/VDM-81078	11	2/18 1		, i		11	/ : / !	ŧ	1	
· ··-	MECH/VDM-81088	11	2/1R		P 1		11	/ 1 / /	1		
	MECH/VDM-85028	11	2/1R		р р			/ !	i.	i 1	
5-6AB-202 <b>9-</b> 2	MECH/VDM-8107C		2/18 1		P		11	$\frac{1}{I}$	:	;	
	1	11		•	. '					T.	

## ORIGINAL FAGE 15 OF POOR QUALITY

IDENTI	CIERG	NASA	1 1	i	IOA-RECOMM	ENDATIONS ¥	
NASA		CRIT   SCRE			SCREENS :	OTHER (SEE LEGEND CODE)	ISSUE   
FMEA NUMBER	:	=========	====;	======			1 1
:=========== )5-6AB-2029-2	: MECH/VDM-8108C	: 2/1R   P F	, b ;		,	!	1
02-988-1047-1	MECH/VDM-8502C	1 2/1R 1 P			1		1 1
05-5AB-2030A-2	: MECH/VDM-8107E	1 2/1R   P 1		\	1	}	i i
03-980 2000N F	LIECTO ARGO GIAGO	1 2/1R   P			1	1	1
	: MECH/VDM-8502E	1 2/1R   P		$\frac{1}{1}$	1	, !	1 1
05-6AB-2031A	; ((EGI)) + DII - B	11 2111			1	1	
07-DMD 70019	1 1155111 4511 651	11 4/11		1	1		1
	I MERUNARU ARAT	11 4/10		11 /	!	1	
05-5AB-2126-2	: UECUI 400 0044	2/1R   P		11 1	1	1	ì
05-6AB-2128-1	; (TEL()) + D() DD000	2/1R   P	P P	11 1	1	1	:
05-6AB-2129-2	I WERLY ARM SHARE	2/1R   P	, ,	11 /	!		i
05-6AB-2130-1	MECH/VDM-8503D	11 2/1R 1 P		11 /	!	<b>1</b>	
05-6AB-2130-2	HECH/VDM-8503E	11 2/1R   P	7 F	11 /	!	1	!
05-6AB-2133-2	: MECH/VDM-8503J	11 2/1R   P	pp	$\frac{11}{11}$ $\frac{t}{I}$		1	
05-6AB-2134-2	: MECH/VDM-8503F	11 2/1R   P	5 5	$\frac{11}{11} = f$	· t	!	E }
05-6AB-2135-1	MECH/VDM-85036	11 2/1R 1 P	r r	11 /		<u> </u>	}
05-4AB-2138-1	: MECH/VDM-8503H	2/1R   P	P P	11 /	ļ	ļ.	
05-6AB-2139-2	MECH/VDM-85031	11 2/18 1 P	P	11 /		-	i
05-6AB-2177-1	HECH/VDM-8503A	11 2/1R 1 P	F F	11 /		1	1
: 05-6AB-2201-2	; MECH/VDM-8511A	11 2/1R 1 P	' '	11 /		!	į
1 00 0up 554	MECH/VDM-8512A	11 2/1R 1 P		11 /	!	I 1	i
1	: MECH/VDM-8513A	11 2/1R 1 P	, ,			<u> </u>	1
1	: MECH/VDM-8517A	1 2/1R   P	FP	11 /	•	1	į
05-5AB-2202-2	MECH/VDM-8511	11 2/1R 1 P	, ,	11 1	•	!	;
1 03 000 2202 -	MECH/VDM-8512	11 2/18 1 P		11 /	!	1	;
1	: MECH/VDM-8513	11 2/1R   P			!		1
i i	MECH/VDM-8517	2/1R   P		$\frac{11}{11}$	:	i i	!
; 05-6AB-2204-2	: MECH/VDM-85118	2/1R   P		11 /	!	} E	i
i	: MECH/VDM-8512B	11 2/18 1 P		11 /		1	i
i i	: MECH/VDM-8513B	11 2/1R   F		• • • • • • • • • • • • • • • • • • • •	!	:	1
1	MECH/VDM-85179	11 2/18 1 5				}	;
05-6AB-2252-1	: MECH/VDM-8507	2/1R			· ·	1	i
!	MECH/VOM-8508	2/1R			r }	!	1
05-6EB-2000-1	: MECH/PBD-5502			11 /	1	1	
05-6EB-2001-1	MECH/PBD-5504				/	i ì	
05-6EB-2001-2	: MECH/PBD-5504A	• •			/ 1	1	•
05-628-2004-1	MECH/PED-5507		,		/ 1	1	1
05-6EB-2004-2	: MECH/PBD-5507A	3/1R       3/1R			/	i i	i •
1	: MECH/PBD-5508	1 3/1R	, ,		/	i 1	1
: 05-6EB-2005-1	MECH/PBD-5507B	2/1R		, ,. P	<i>[</i> ]	ì	i
1 1	: MECH/PBD-5508A	11 2/1R 1		P 11	<i>f</i> - {	i I	
05-6EB-2005-2	HECH/PBD-5507C	11 2/1R 1		P !!	/ 1	l	<b>4</b>
1 1	: MECH/PBD-5509B	11 2/1R 1	•	P 11	1 1	1	:
05-6EB-2010-1	MECH/PBD-5504B	11 2/1R 1		P 11	1 1	!	i I
; 05-4EB-2010-2	MECH/PBD-5504C	11 2/1R 1		P 11	1	1	i
; 05-6EB-2011-1	; MECH/PBD-5505	11 2/18 1		P 11	1 1	1	i.
05-6ED-2026-3	MECH/ETU-3505	11 2/1R 1		P 11	1 1	!	i
\$ 1	MECH/ETU-3506	1		P 11	1 1	1	1
: 05-6ED-2026-4	MECH/ETU-3505A			P 11	; ;	1	j. F
1	: MECH/ETU-3506A	11		11	1	:======================================	i

	IDENTIFIERS ;	 	NASA	3 1 1 i	IOA RECOM	MENDATIONS *	
NASA FMEA NUMBER	loa ;   Assessment Number ;	HW/F	IABC:		SCREENS	OTHER (SEE LEGEND CODE)	:   ISSU 
05-4ED-2027-2	MECH/ETU-3507			======	= { ====== ;	222222222222222222	:{=====
	MECH/ETU-3508			1 /	· · · · · · · · · · · · · · · · · · ·		:
05-6ED-2027-3	! MECH/ETU-3507A	2/1R					<i>i</i>
05-6ED-2028-3	MECH/ETU-3508A			1 7	1		i ,
03-950-2028-2	MECH/ETU-3509	2/1R		1 /	1		1
05-4ED-2030-3	MECH/ETU-3510	2/1R			;		į
40 020 1000 G	MECH/ETU-3509A	2/18			1		!
05-6ED-2126-2	MECH/ETU-3510A	2/1R :			1		
-	MECH/ETU-3503E	3/1R /			!	:	
05-6ED-2127-1	MECH/ETU-3501	3/1R :			!	!	
	MECH/ETU-3502	2/1R /		•		, ;	
05-6ED-2127-2	MECH/ETU-3501A	2/1R 1			<i>i</i>		
	MECH/ETU-3502A	2/1R 1			· .	1	
)5-6ED-2129-1	MECH/ETU-35018	2/1R :		/	1		
E (FB 0470 B	MECH/ETU-3503	2/1R 1	P P P !!	7	·	i	
5-4ED-2130-2	! MECH/ETU-3501C	2/1R		1	; ;	i i	
5-6ED-2131-1	MECH/ETU-3503A	2/1R		7 1		i I	
0 0FB 1101-1	MECH/ETU-3501D	2/1R		I = I			
5-6ED-2131-2	MECH/ETU-3503B	2/1R		1 1	<i>‡</i>	;	
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5-560-2132-2	1 450075477		P P P !!	/ /	i	İ	
	I MEAULETU		P	1 1	1	1	
5-6ED-2250-1	) MESU JESU		PFPII	- I i	;	1	
5-6ED-2251A-1	MECH/ETU-3522E		P F P 1!	/ 1	•	5 1	
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-6ED-2251A-2	MECH/ETU-3522F	2/1R ! !	P F P	7	!	i	
-6E9-22518-2	l vestiment	2/1R   F	9 7 9 11	7 1	į	i I	
-pen-77918-7	J MEANITERN SACE	3/1R : A	F P 11	1 1	;		
-6ED-2252-2		3/1R   F		7 1	ł	: !	
220 2202 2		5/1R   F	1 1 11	J = I	i	-	į
-6ED-2252B-2		5/18   P 5/18   P		/ 1	1	1	
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-6ED-2255-2		/1R ! P		j i	i	1	;
-6ED-2257-2	MECH/ETU-35229     3	/1R   P		7 1	i I	j i	i
(FB 0055) -	MECH/ETU-3523D     3	/18   P	FPH	/ :	1 1		
6ED-2257A-2	MECH/ETU-3523B     3	/1R   P	F P !!	7 1	:	i	
6EE-2001-1 6EE-2002-1	L MESSICIAL CO.	/1R	11	1 1	į	i 1	į
gec-1007-1		/1 1	11 2	2/1R   P	F P :	1	X 1
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	MECH/ADP-1503A			/1R   P	F P !	1	χ :
	MECH/ADP-1505A     1/			/IR   P	F P :	4	X :
	MECH/ADP-1506A			/IR   P	F P {	÷ †	χ :
	MECH/ADP-1507A 11 1/			/1R   P	F P	7 +	1 1
	MECH/ADP-1508A   1/			/1R   P /1R   P	FP!	1	( )
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	: MECH/ADP-1510A	11 1/1	i	11	2/1R	i P	F P	! •	1 X		
	MECH/ADP-1511A	11 1/1	1	11	2/1R	: P	FP	<b>¦</b>	l £		
	MECH/ADP-1512A	11 1/1	1	; i	2/1R	! P	FF	1 ;	1 X		
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	i	. :						•			

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03-955-2002-2	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11 1/1		11	2/1R	PFP		X
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	I LIEGIN HEL TOTAL	11 1/1		11	2/1R			; <u>X</u>
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	MECH/ADP-1533   MECH/ADP-1534	11 1/1	) )	11	2/1R		•	;
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	: MECH/ADP-1537			11			1	
	! MECH/ADP-1538			11			į.	1 %
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	MECH/ADP-1540	11 1/1		11			•	i ŷ
	MECH/ADP-1541	11 1/1		11			1	1 Y
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	MECH/ADP-1544	11 1/1		1 1			1	· · · · · ·
	MECH/ADP-1545	11 1/1		11	2/18			,
	! MECH/ADP-1546	11 1/1		11				
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	: MECH/ADP-1548	11 1/1		1 1			1	
	: MECH/ADP-1549	11 1/1		- 11				. A
	MECH/ADP-1550	11 1/1		11				· A
	! MECH/ADP-1551	11 1/1			2/1R		1	i X
	: MECH/ADP-1552	11 1/1		11				. A
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	MECH/ADP-1554	11 17:		i			;	1 4
	! MECH/ADP-1555	11 1/1		; ;				- A - A -
05-4EE-2003-1	: MECH/ADP-1524A		IR I PPP	1				i.
	: MECH/ADP-1525A	11 2/3	IR I PPP					
	MECH/ADP-1526A	11 27	IR I P P P				į.	;
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05-488-2003-2	: MECH/ADP-1524B	11 2/	IR I P P F		1 2/1R		i i	
<del> </del>	MECH/ADP-15258	11 2/	ir i PPF	1	2/1R	LP P P	i i	1
!	: MECH/ADP-1526B	11 2/	ir i P P F	1	1 2/1R	1 P P P	1	,
l I	MECH/ADP-15278	11 2/	IR I P P F				1	i
· :	HECH/ADF-1528B	11 27	1R   P P P	1	1 2/1R	1 P P P	1	į
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	: MECH/ADP-1531B	1 )	2/1R 3	P	P	٩	11	2/1R	P	P	P	i I	!
05-sEE-2003+3	: MECH/ADP-1524	11	2/18	P	7	٢	1 1	2/18	P	Р	P :		,
03 0CF 7000 0	: MECH/ADP-1525	1 1	2/1R	P	P	Ρ	11	2/1R	P	P	P	) i	!
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05-688-2004-1	: MECH/ADP-1565	11	3/1R	P	Ρ	F	1 1	3/18		P	P		i
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	MECH/ADP-1575	1 i	3/1R	ř	Ρ	P	!!	3/1R		P	P		1.
	: MECH/ADP-1581	1 1	3/1R	P	Ģ	Ρ	1 1	3/1R		9	þ		
	: MECH/ADP-15B3	1 1	3/1R	P	Ρ	۶	; ;	3/1R		P	Y	1	1
05-6EE-2004-2	MECH/ADP-1564	1 1	3/1R	: P	P	P	1 1	3/1R		5	8	:	
	: MECH/ADP-1566	! }	3/1R	; ?	ņ	P	1 1	3/1R		-	<i>}</i>	ì	
	MECH/ADP-1572	1 1	3/1R	! P	5	P	1 1	3/1R	( P	۲.	9	i	1
	! MECH/ADP-1574	i !	3/1R	! P	P	Ρ	11	3/1R		P	۲		1
	MECH/ADP-1580	!!	3/1R		þ	۴	1 1	3/1R		9	۲.	•	1
	: MECH/ADP-1582	1 1	3/1R	1 P	Ρ	Р	- 11	3/1R	1 P	P	۲		i
05-6EE-2005-1	MECH/ADP-1569	 	3/3	1			11	3/3	!			1	1
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05-4EE-2005-2	MECH/ADP-1568	1 1	3/1R			P	::	3/1R		5	r n	i	1
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05-6EE-2006-1	MECH/ADP-11701X	1 1					-	1	* •			į.	1
05-3EE-2007-1	: MECH/ADP-11702X	11					11	,	1			1	į
05-6EE-2008-1	: MECH/ADP-11703X	11					11	,	1			i	:
05-6EE-2008-2	MECH/ADP-11704X	11					11		1			i	!
05-4EE-2009-1	: MECH/ADP-11705X	- [ ]					1 :		1			1	
05-6EE-2009-2	: MECH/ADP-11706X						1 1		1			1	*
05-6EE-2012-1	MECH/ADP-11707X	11				D	1.1		1			:	i
05-6EE-2012-2	: MECH/ADP-11708X	1 1		1 Γ 1	Г	,		3/18		Ð	p		1 3
05-6EE-2014-1	: MECH/ADP-1628	11		i i			: 1				þ		, X
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	MECH/ADP-1636	11		1	11			p p	1	i X		
	MECH/ADP-1637	11		1	11			PP	1			
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	MECH/ADP-1639	? !		· ·	1 !			PP	1	i X		
	: MECH/ADP-1640	11	3/3	!	11			p p	;	; А ! Х		
	MECH/ADP-1641	11	3/3	!	1 1	3/1R		рр	•	; A		
	MECH/ADP-1642	!!	3/3	!		3/18		рр	!	: А		
	MECH/ADP-1643	I 1	3/3	!	11	3/1R		рр	1	, A.		
	MECH/ADP-1644	11	3/3	!	11	3/1R		9 P	!	, A		
	MECH/ADP-1645	) I	3/3	!	11	3/1R		, . p p	1	1 A		
	MECH/ADP-1646	::	3/3	1		3/1R :		, . D D	i	i A i 9		
	! MECH/ADP-1647	11	3/3	; !		3/1R		рр	•	i A		
	: MECH/ADP-1648	11	3/3	·	11	3/1R :		p 0	i i	. A		
	! MECH/ADP-1649	11	3/3	i	11	3/1R /		PP	i 1			
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	MECH/ADP-1655	11	3/3	i i		3/18 1		r r		Ā		
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	MECH/ADP-1657	11	3/3 3/3			3/1R :		F F	1	X		
	MECH/ADP-1458	11			1 1	3/1R :		7 7	i	X		
	MECH/ADP-1659	11	3/3		11	3/1R 1		P P		X		
	MECH/ADP-1860	- 11	3/3		11	3/1R		PP		X		
	MECH/ADP-1661	11	3/3 3/3		1 1	3/1R /		РР	1	X		
					11	3/1R /		PP	i ;	1		
	MECH/ADP-1662		3/3		1 1	3/1R 1		9 P		X		
	1 MECH/ADP-1663	11	3/3		11	3/1R /		P P	;	X		
	MECH/ADP-1664	11	3/3 (			3/18 1		PP		X		
	HECH/ADP-1565	1 :				3/1R		P P		X		
	MECH/ADP-1666		3/3			3/1R 1		P P	!	Ä		
	MECH/ADP-1667		3/3			3/1R			1	X		
	B881-9DA\H33M	11				3/1R 1				X		
	MECH/ADP-1669	::	3/3 1						i .	X		
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		13	3/3 1			3/1R !		P P	}	X		
	MECH/ADP-1672	1 1	3/3			3/1R :		p b	!	X		
	MECH/ADP-1673	11	3/3		! !	3/1R !		P P	1	X		
	MECH/ADP-1574		3/3		!	3/1R		P P	1	X		
	MECH/ADP-1675	11	3/3 '		1	3/1R		P P	[	X.		
	MECH/ADP-1676		3/3 :		1	3/1R		p p	1	X		
	1 MECH/ADP-1577	11	3/3 :	-	1	3/1R 1		PP 	!	X		
	: MECH/ADP-1678	11	3/3 1			3/1R 1		p s	1	¥		
	MECH/ADP-1679	: 1	3/3		1	3/1R		P P	1	X		
	MECH/ADP-1680	11	3/3		!	3/1R		p 5	1	X		
	MECH/ADP-1681	11	3/3		;	3/1R 1		РР	i :	X		
	MECH/ADP-1682	11	3/3			3/1R 1		b b	† ;	X		
	MECH/ADP-1683	11	3/3 1			3/1R		РР	!	Ĭ.		
	MECH/ADP-1684	: 1	3/3 (			3/1R (	P (	ים כ	1	X		
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05-6EE-2014-1	NECH/ADP-1686		3/3 l				11	3/18 1	Ρ	٩	P :			{ X
			3/3 1 3/3 1					3/1R		Ρ	9 1			X .
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05-4EE-2015-1	MECH/ADP-1501	1 1 1 1	3/1R :	, , p	þ	p	11	3/1R	. P	p	P	l I		1
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05-6EE-2016-1	MECH/ADP-1595	11	3/1R :	. r		P	11		! P	F	P			1 X
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05-6EE-2016-2	MECH/ADP-1594	11	3/1R	 1 P	Ē	, P	1 1			F	p	!		:
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05-4 <b>EE-</b> 2017-1	MECH/ADP-1589	1 i	3/1R	) P	p	p	11			F	P	1		1 1
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05-4EF-2003-2	MECH/PBR-16515X	11	2/1R			P	1 1 1 1		!					1
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. AE :EE 8640 7	MECH/PBR-6509	11	2/1R		F	P	1	1 /	ļ			1		
05-6EG-2010-3	! MECH/PBR-6510	11	2/18			P	1	1 /	!			1		1
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t	. MECH/KBD-4533	- !!						3/1R				1		i i
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 05-4EH-56000-1	######################################	===; ;			P )	: :	==;	:====== : 3/1R		===== p p	==   : !		•
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0 <b>5-6EH-5</b> 6000-3	MECH/KBD-4517A	1	2/18	į	P F	P	1	3/1R	} P	P P	1		, , ,
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	MECH/KBD-4541A	11			•	•	11	3/1R	. 5	P ?	i		; X
5-65H-56000-4	MECH/KBD-4542A	11			,	Ρ	11	3/1R	' '	P P	î		, X
W-020100-4	1 MECH/KBD-4514	11				P	11	3/1R		9 9	1		Υ,
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	1 MECH/KBD-4522	11		•		P	11	3/1R :		P P	1		! X
	: MECH/K9D-4524	11	2/1R 1		•	P -	1 1	3/1R		p p	i		Ä
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	MECH/K9D-4532	, i Į t	2/18 ( 2/18 (	P		۲ 5	11		) 	P P		:	Ä
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	MECH/XBD-4538	11	2/1R 1		4	F	11	3/18   3/18	7 1	ε.	i	ì	X.
5-4EH-5600 <b>4-</b> 2	MECH/KBD-14488X	11	3/1R t	•	5	P	11	- 47 km s / !	rr	• •	1		X
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5-4EH-56010-2	. MECH/KBD-14691X	11	3/1R /		F	Р	11	1 1			1		
5-654-56011-1	MECH/KBD-14692X	11	3/1R /		F	þ		7			į	÷	
5-4EH-56011-2	: MECH/KBD-14693X	1.1	3/1R 1		F	è		7 1			į	:	
5-6EH-55020-2	MECH/KBD-4547	!!	3/1R /		F	p	11	3/18 1	p 5	р			
	MECH/KBD-4549	1 1	3/1R	P	F	P	11	3/1R 1		Р	1	i r	
	: MECH/K8D-4555		3/18 [	P	F	p	11	3/1R			•	•	
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	MECH/KBD-4563	1.1	3/18 1	F	۶	F	1 I	3/1R	P F	Þ	1		
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	MECH/KBD-4569	11	3/1R 1	Þ	F	2	11	3/1R 1	ې م	P			
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	1 MECH/KBD-4577	1 :	3/18 +	P	F	Đ,	1 1	3/1R	8 8	5	1 :	,	
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)5-6EH-56020-2			ir i		F	P		3/1R		F	P :		i i
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05-4EH-56021-2	MECH/KBD-4543		R 1		F	P	H	3/1R	Р	F	₽ :		ł X
03-457-0051-7	MECH/KBD-4545		LR I		F	P	H	3/1R	P	F	P		; X
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